Construction Projects 1986-87

-06001/

THE COVER

"THE GREAT SAUK TRAIL" shown on the highway sign in the central picture, is a long trail commencing in Illinois used by the Sauk and Fox Indian tribes who made yearly journeys to Amherstburg to secure presents from the British Government in return for services rendered in the War of 1812. During the war, American General Hull marched from Detroit with 2500 Regulars to attack Fort Malden. Hull was held in check for several weeks at Riviere Aux Canards by British Regulars supported by many Indians and eventually forced to flee across the Detroit River.

In recognition of the historic significance, Highway 18, which approximates this route, has been designated a Heritage Highway and is signed and marked on the Provincial Road Maps. A historic plaque has also been erected at a small roadside park to commemorate the "Skirmishes at the Canard River."

The Ministry proposes to make Highway 18 a four-lane facility between Amherstburg and Windsor. The initial widening north of Amherstburg is presently being carried out.

The pictures on the cover surrounding this, depict other types of projects carried out by this Ministry.

Ontario

Ministry of
Transportation and
Communications

Ministry of
Northern Development
and Mines

Provincial Highways Construction Projects 1986-87

Published by:
Transportation Capital Branch
Ministry of Transportation and Communications
West Tower
1201 Wilson Avenue
Downsview, Ontario
M3M 1J8

ISSN 0714-1149

April 1986

FOREWORD

This publication presents the proposed Capital Construction projects for 1986-87. This includes new highway projects to commence this fiscal year as well as unfinished contracts from previous years that will have significant expenditure this year. The projects provide for rehabilitation of existing highways and bridges, as well as construction of new links to relieve congestion and complement economic development. Also included are projects to be undertaken by the Ministry for other authorities or agencies under cost sharing agreements.

Two major projects, the E.C. Row Expressway in Windsor and the Queensway in Ottawa, have been accelerated so that their completion dates are now in advance of previous schedules. In addition, we are continuing to make steady progress on Highway 403 from Brantford to Woodstock, Highway 8N - a new four-lane freeway in Cambridge, Highway 410 in Brampton, Queen Elizabeth Way from Highway 20 to Highway 403, Highway 404 to Newmarket, Highway 35/115 four-laning north of Newcastle and the twinning of Highway 115 southwest of Peterborough. Other improvements on major highways include new interchanges at Highway 11 and Taylor Road, Bracebridge and Highway 401 and Winston Churchill Boulevard, Mississauga and collector lanes on Highway 403 south of Highway 401 from Matheson Avenue to Eglinton Avenue.

Rehabilitation work such as resurfacing and reconstruction will continue as required, to maintain the standard of the existing highway system. This year's projects will include Highway 401, Tilbury to Belle River Road - westbound lanes and Cobourg to Belleville - eastbound and westbound lanes at various locations; Highway 21, Highway 80 southerly; Highway 10, Primrose to Shelburne; Highway 70 north of Highway 6; Highway 20, Fonthill westerly; Highway 2, Oshawa easterly to Courtice and Highway 106 southerly; Highway 35, Rosedale to Coboconk; Highway 62, Bonnechere northerly to township line; Highway 507, Catchacoma northerly; Highway 648, Highway 121 northerly to Wilberforce; Highway 518, Highway 11 easterly and westerly; Highway 654, Highway 11 westerly; and modifications to the Highway 401/Don Valley Parkway interchange.

In Northern Ontario, staged construction will continue on the Kenora Bypass and the Sudbury North-west Bypass. In addition, construction of the Smooth Rock Falls Bypass will begin and Highway 101 will be widened to four lanes between Schumacher and South Porcupine. Rehabilitation projects on the King's Highway system will include sectors of Highway 11 west of Smooth Rock Falls and west of Atikokan; Highway 17, north of Wawa and east of Upsala; Highway 6, north and south of Manitouwaning; and Highway 65, east of Elk Lake. A number of projects for upgrading various sections of Secondary Highways are also included.

A continuing emphasis on rehabilitation of existing bridges is equally important in maintaining the highway system. The main project to be awarded this year will be the rehabilitation of the existing Burlington Bay Skyway bridge. Many bridge decks will be repaired in conjunction with road work and many others will be rehabilitated independently. This type of work, which is labour intensive, will be distributed across the entire province.

There are also a number of specific activities that will be continued in 1986. A total of eleven more passing lanes will further complement passing opportunities on the highway system. Work will continue on four remote airports in North-Western Ontario. The installation of retrofit noise barrier walls will be tendered on three sites along freeways in Central Ontario.

In addition to the work highlighted above, many other projects are listed in this publication. All of these projects are necessary to address the basic needs of the provincial highway system.

Ed Fulton

Ed Fulton
Minister of Transportation
and Communications

CONSTRUCTION PROJECTS - SOUTHERN ONTARIO

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NOTE: Construction projects listed by districts are either proposed new work or contracts under construction with a substantial amount of work yet to be carried out this fiscal year.

THE SECOND SECTION OF THIS BOOK CONTAINS THE CONTENTS FOR NORTHERN TRANSPORTATION CONSTRUCTION PROJECTS

FINANCIAL SUMMARY - SOUTHERN ONTARIO

Highway Program 1986-87 Capital and Construction	Value of Projects	Expenditure Fiscal 1986-87
. capital construction projects	$328,397,000	$169,979,300
. preliminary project work	1,500,000	1,300,000
. miscellaneous construction	23,070,200	12,736,200
. facilities construction	6,899,000	4,300,000
SUB TOTAL	**$359,866,200**	**$188,315,500**
. property purchase		14,500,000
. support services		10,708,500
TOTAL PROPOSED EXPENDITURE		**$213,524,000**
***FUNDS TO BE VOTED - VOTE 2604 item 3**		**$213,524,000**

EXPLANATION OF FINANCIAL CATEGORIES

Capital Construction Projects

This represents a significant part of the Provincial Highways Program and consists of major contract work on roads and bridges. Included, are contracts carried over from the previous fiscal year, as well as proposed new work.

Facilities Construction

The construction of buildings and sites for patrol yards and for truck inspection stations, both of which contribute to the maintenance of the highway system, are included in this category. These facilities are funded by the Ministry of Transportation and Communications for northern and southern Ontario.

Miscellaneous Construction

This covers a variety of work which is not provided for in the other categories such as:

(i) Projects which represent needed highway improvements of a geometric or structural nature which do not readily fall into either the normal contract process or the maintenance activity - the work is carried out by direct utilization of local labour, equipment and materials.

(ii) Projects in which the Ministry is involved as an owner or as an interested party - in many cases the work is carried out by a municipality or other agency and a portion of the cost is paid by the Ministry.

(iii) Special or Service Contracts - consisting of work supplementary to capital contracts.

(iv) Railway Level Crossing Protection - consisting of the installation of automatic signal protection, or the modernization of existing signal protection, at highway-railway level crossings.

Preliminary Project Work

The estimated cost of such items as utility relocation, advance clearing, purchase of construction materials and other work undertaken prior to a contract award, is allocated to this category.

Property Purchase

The purchase of property or right-of-way user rights, for the construction and maintenance of provincial highways in Ontario, is covered by this category.

Support Services

This represents the funding for several administrative units whose services are integral functions of the acquisition and construction process.

MAJOR PROJECTS - SOUTHERN ONTARIO

The following pages describe several projects that have been selected to highlight this year's activity. All of these projects involve highway construction of considerable magnitude and cost and each is vital to the efficient performance of the provincial transportation system.

The resumés feature work that has recently been completed, work that is underway and work that is to be tendered this fiscal year. Maps are also included, in order to identify projects locations.

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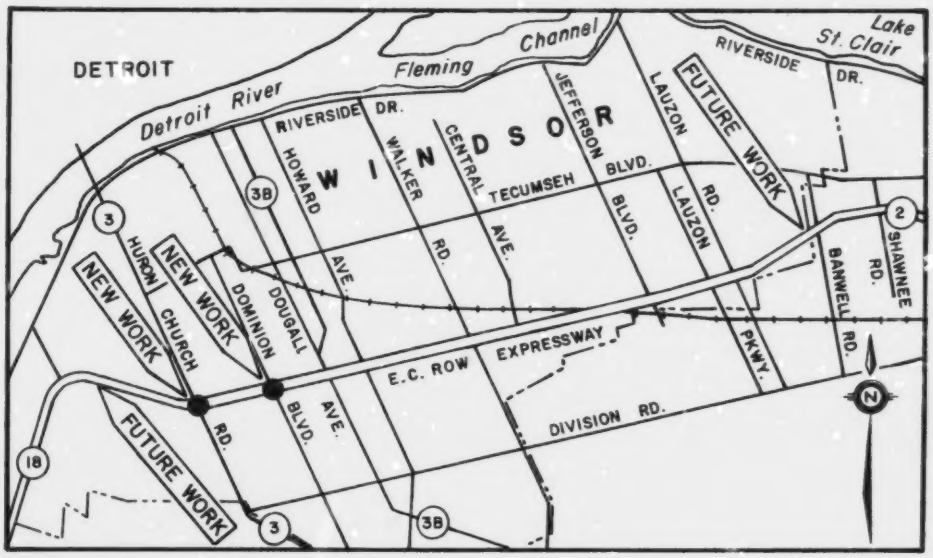
E.C. Row Expressway - City of Windsor

In 1970, the Ministry of Transportation and Communications in partnership with the City of Windsor commenced construction of the E.C. Row Expressway. The expressway was to provide a connection between Highway 2 on the east and Highway 18 on the west.

To date, the initial phase of the project has been completed. Traffic can travel the expressway from Highway 2 to Highway 18. In future years, it is planned to provide grade separated interchanges at Huron Church Road and Dominion Boulevard, and widen the east and west ends by the addition of two driving lanes.

Work will commence on the interchanges at Huron Church Road and Dominion Boulevard this year. Due to foundation considerations and the magnitude of the work, it is planned to tender a number of contracts over the next few years to complete these interchanges.

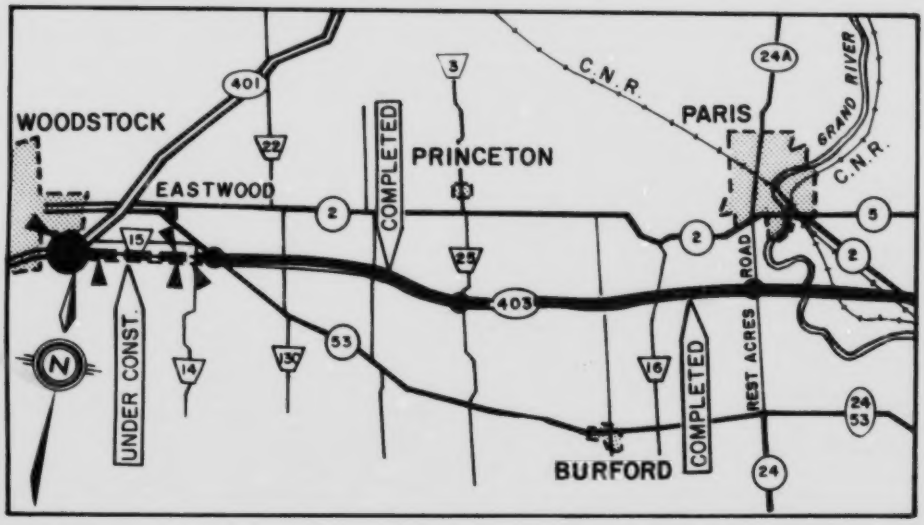


Highway 403 - Brantford to Woodstock

The contract for granular base and paving from Brant County Road 25 to Oxford County Road 14 was completed in the fall of 1985. The westerly extension of Highway 403 is now open to traffic from Rest Acres Road to Highway 53.

The contract from Oxford County Road 14 to Highway 401 was awarded late in 1985 and is expected to complete this year. This project is for grading, drainage and four structures.

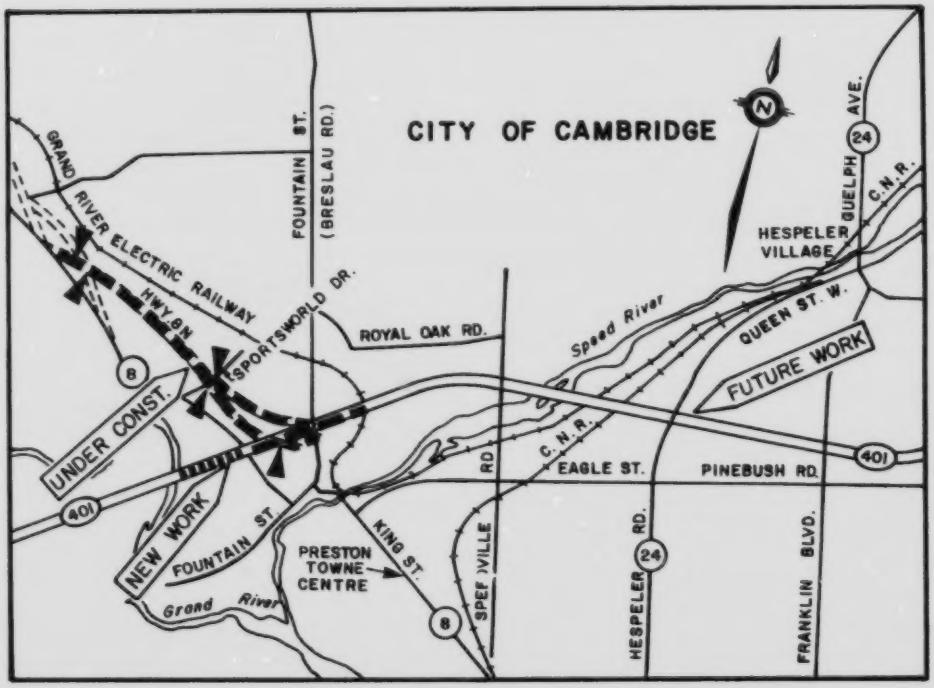
Upon completion of the above work, a final contract will be awarded for the granular base and paving from Highway 53 to Highway 401, and will include the Highway 401 interchange overpass structure.



Highway 8N - Cambridge - From Highway 401 Northerly to Freeport Drive

In 1985, a contract was awarded for the construction of a new four-lane freeway. The highway is located east of and parallel to existing Highway 8, between Highway 401 and Freeport Drive. The work involved the initial grading, drainage, and a structure for Highway 8N and the widening of Highway 401 to six lanes from Highway 8 easterly to the Grand River Electric Railway.

This year, another contract will be tendered which will complete the freeway between Highway 401 and existing Highway 8 in the vicinity of Freeport Drive. A grade separated interchange is to be provided at Freeport Drive, structures are to be built for Sportsworld Drive, the widening of Highway 401 will be extended westerly to the Grand River, existing Highway 8 will be resurfaced in part and the Highway 401/8 interchange will be modified.



Queen Elizabeth Way - Burlington to Hamilton

Capacity improvements were initiated in the Queen Elizabeth Way corridor between Burlington and Hamilton, to relieve the existing heavy rush hour traffic, as well as operational problems.

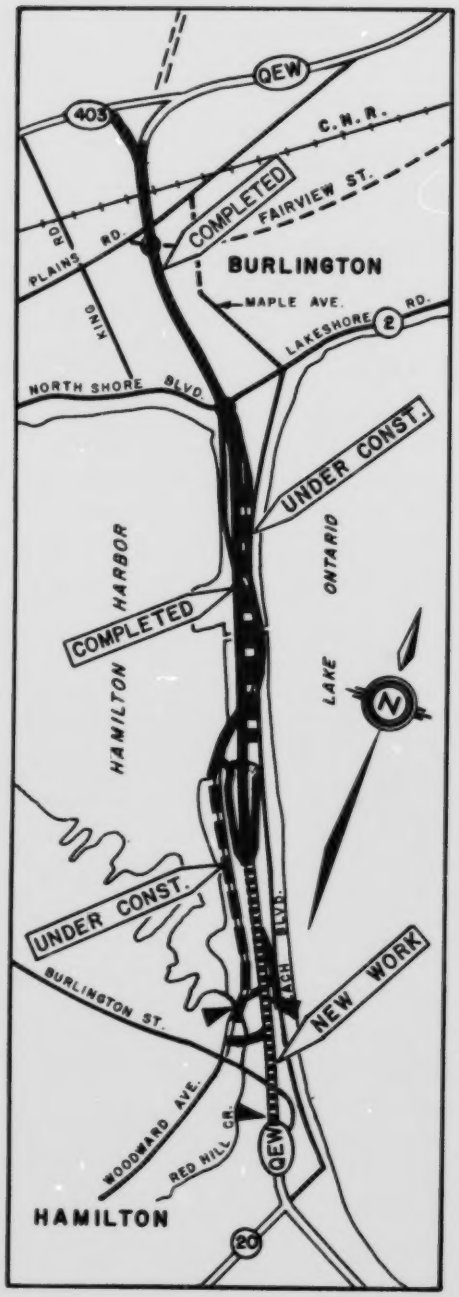
The widening of the Queen Elizabeth Way between Highway 2 and Highway 403, including the Fairview Street interchange, was completed in the summer of 1985.

The last contract to complete the Hamilton-Burlington arterial road from the south end of the Skyway to Woodward Avenue, including the Red Hill Creek bridge, has been awarded and will complete this spring.

The new Burlington Skyway structure was completed well ahead of schedule, and was opened to traffic last fall. At the same time, the contract for the construction of the approaches to facilitate the traffic switch to the new Skyway, was also completed.

The contract for the removal of the concrete deck and repair of the structural steel on the old Skyway,was awarded late in 1985 and is scheduled to complete this fall.

A separate contract to construct a new concrete bridge deck on the old Skyway will be awarded this year following the completion of the deck removal. Also, a contract will be awarded this summer for widening of the Queen Elizabeth Way from the south end of the Skyway to just south of the Burlington Street interchange. Included in the contract will be the construction of a noise barrier on the east side and widening and rehabilitation of the bridges at Woodward Avenue and Red Hill Creek.



Highway 410 and 7 New - Brampton

The Ministry of Transportation and Communications is constructing Highway 410 through the City of Brampton in accordance with the official plan which provides for a major transportation facility along the Heart Lake Road corridor. The design concept includes a four lane divided controlled access highway with interchanges at Steeles Avenue, Clark Boulevard, Queen Street, Williams Parkway and Bovaird Drive, as well as a depressed grade adjacent to residential areas to provide adequate noise attenuation. Also, Highway 7 New will be constructed along Bovaird Drive between Heart Lake Road and Highway 10. The design concept onthis section includes four-lane arterial road standards with at grade intersections.

Construction of the northbound lanes from south of the Canadian National Railway to south of Vodden Street has been completed.

During 1985, two contracts were awarded. One was for the widening of Highway 7 New from east of Kennedy Road easterly, including the Bovaird Drive/Highway 410 interchange. The second contract was for construction of the northbound lanes of Highway 410 from Steeles Avenue northerly to south of the Canadian National Railway, including the Glidden Road twin structures.

These contracts are expected to complete this summer.

Another contract will be tendered in 1986 for construction of the northbound lanes of Highway 410 from south of Vodden Street to south of Bovaird Drive. The work will include underpasses at Williams Parkway and Franceschini Drive and an interchange at Williams Parkway.

Highway 404 - North of Metro Toronto

The Ministry has maintained a continuous program for construction on Highway 404 from Highway 401 northerly towards Newmarket. To-date, this new freeway has been completed to the Aurora Road, a distance of 26 km.

Work will soon begin on the final section that will complete Highway 404 to Davis Drive, Newmarket.

Late in the 1985 fiscal year a contract was awarded for advance structures and approach work at St. John's Side Road, Mulock Drive and Davis Drive. This work is expected to complete by the spring of 1987.

An additional contract to complete construction of the roadwork on this section, will follow completion of the structure work.

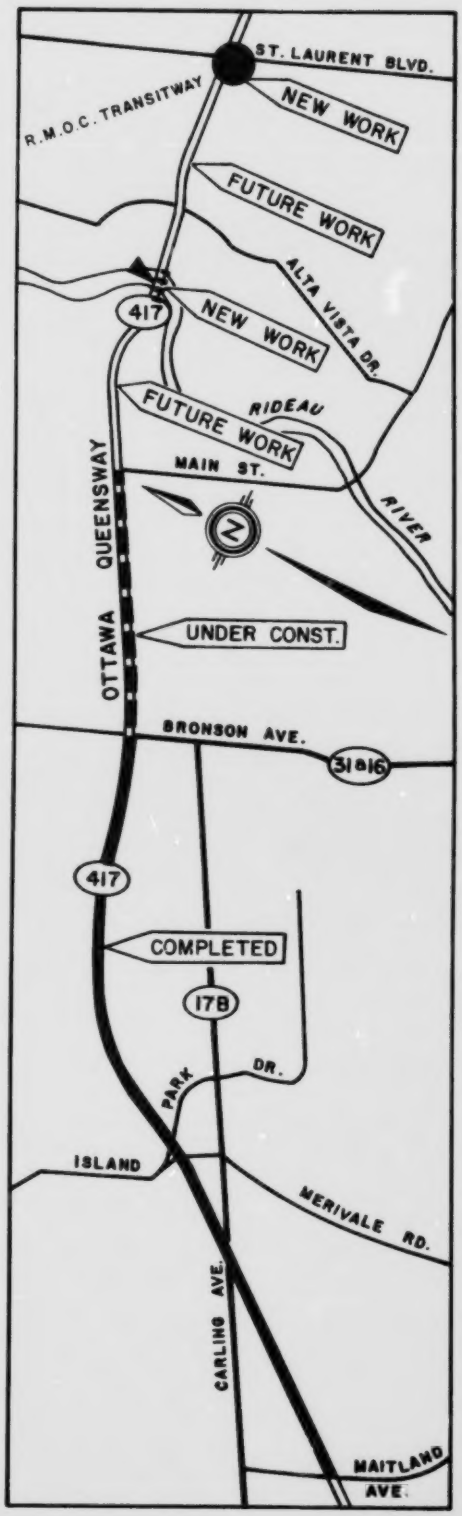
Highway 417 - Ottawa Queensway

Rehabilitation of Highway 417 (Ottawa Queensway) includes additional safety features, modifications of interchanges and also, a new lane in each direction to provide for the increased capacity.

Two major rehabilitation projects between Maitland Avenue and Bronson Avenue began in the summer of 1983 and will complete early in 1986. The next contract between Bronson Avenue and Main Street was awarded in 1985 and is expected to complete by the fall of 1987.

These contracts have included grading, drainage, granular base, paving and extensive rehabilitation of associated structures. The concrete median barrier is provided as a safety feature for the travelling public and will contain a new illumination system.

This year, a structure and grading contract for the reconstruction of the St. Laurent Boulevard interchange will be awarded. The expected completion is the fall of 1988. This contract also includes a structure under Highway 417 to facilitate the Regional Municipality of Ottawa Carleton transitway. In addition, another structure contract will be awarded for the widening of the Hurdman bridges over the Rideau River.



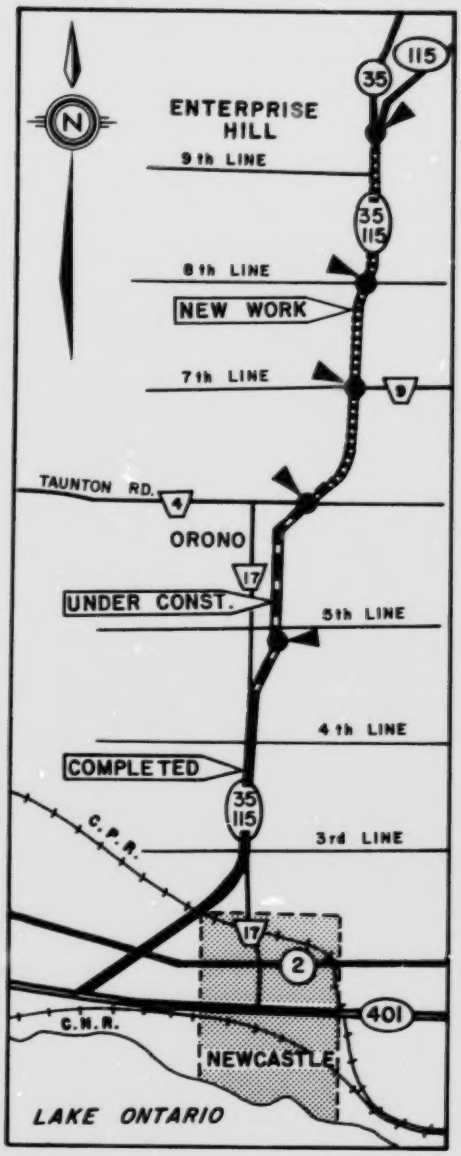
Highway 35/115 - Highway 2 northerly to Enterprise Hill

The Ministry plans to provide a four-lane limited access highway on this link, to accommodate the high usage by recreational and commercial traffic. This work includes the construction of a median barrier and flyovers and interchanges at main municipal roads.

The four-lane widening has been completed from Highway 401 to the south entrance to Orono (north junction Durham Regional Road 17), a distance of 7.6 km.

A contract was tendered in 1985, for a further 4.3 km to just north of Regional Road 4 (Taunton Road). Under this contract, interchanges will be constructed at Fifth Line and at Taunton Road. This section is scheduled to complete this summer.

The final contract to complete the remaining 8.7 km of this link from just north of Taunton Road northerly to Enterprise Hill will be awarded this year. Included are interchanges at Seventh Line, Eighth Line and at the junction of Highway 115.

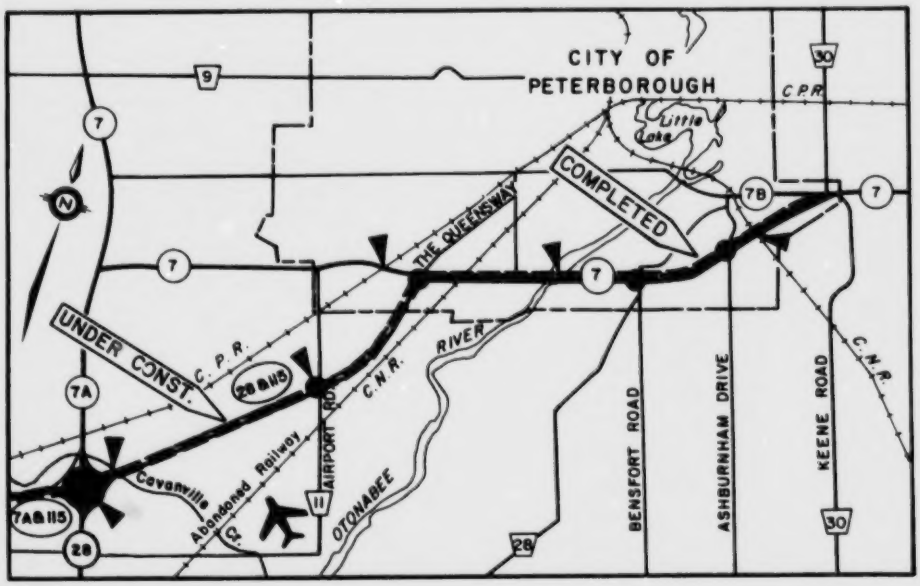


Highway 115 - Peterborough southwesterly

Existing Highway 115 will be twinned in order to promote economic development in the Peterborough area and to provide additional capacity for the high volume of recreational traffic travelling to the Kawartha Lake Region.

Widening of the Highway 7, Peterborough Bypass, is complete.

In 1985, a contract was awarded for twinning Highway 115 from the Peterborough Bypass to 1.0 km southwest of Highway 28. This work includes structures at County Road 11 (Airport Road), Cavanville Creek and Highway 28, construction of an interchange at County Road 11 and modifications to the Highway 28 interchange. Construction is expected to complete this fall.



SPECIFIC ACTIVITIES

Passing Lanes

The construction of passing lanes and truck climbing lanes has proven to be a cost effective means of providing safe opportunities to pass slower moving vehicles and maintaining the operational flow of traffic. A review of traffic operations where passing lanes have been constructed, indicates that they function in a very satisfactory manner and public reaction has been favourable, especially on the Trans-Canada Highway in Northern Ontario.

It is intended to continue with the construction of passing lanes in areas where the present criteria and experience indicate they will be effective. Eleven passing lanes are planned for award during the 1986-87 fiscal year, of which, six are in Southern Ontario.

The following table indicates the number of passing lanes constructed in Northern and Southern Ontario over the past ten years on an annual basis.

Year	Northern Ontario	Southern Ontario
1985	6	7
1984	3	1
1983	14	1
1982	4	6
1981	3	5
1980	15	4
1979	11	3
1978	9	1
1977	28	17
1976	26	1
1975	36	--
Total Number of Lanes since 1975.	**155**	**46**

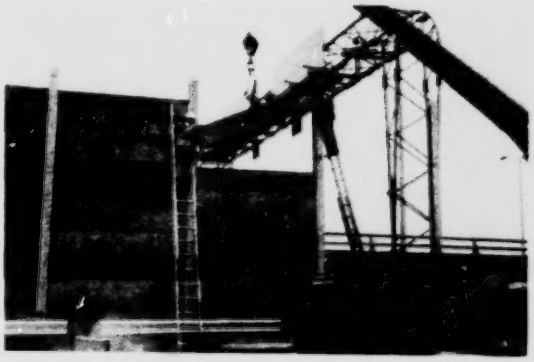
Noise Barriers

In 1977, the Ontario Government adopted a policy to address traffic generated freeway noise. Since then, noise barriers have been erected at more than sixty locations. Walls have been erected along the Ottawa Queensway, Highways 401, 403, 404 and 427, and the Queen Elizabeth Way.

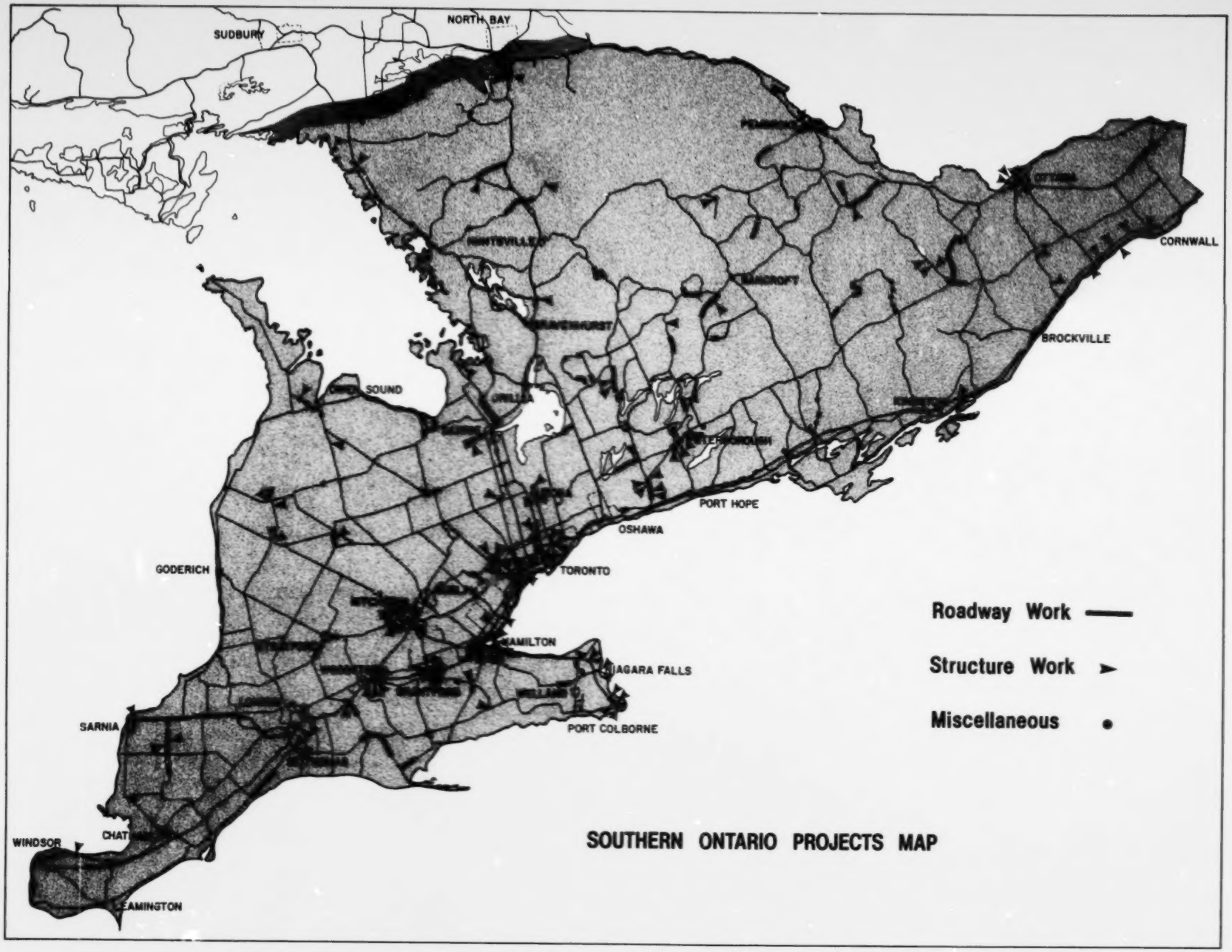
Under the 1986/87 work plan, it is intended to erect noise barrier walls at the following locations:

Q.E.W.	- Mississauga	- East of Dixie Road on the north and south sides.
Q.E.W.	- Oakville	- West of Trafalgar Road on the north side.
Highway 401	- North York	- South east quadrant of Highway 401/Don Valley Parkway interchange.

New type of cover for the fire hose access panels. Flexible material permanently fastened on top to prevent loss of covers.



Pads on lifting device have been modified to eliminate scuff marks on panels.


SUDBURY
NORTH BAY
CORNWALL
BROCKVILLE
SOUND
PORT HOPE
OSHAWA
GODERICH
TORONTO
HAMILTON
NIAGARA FALLS
PORT COLBORNE
SARNIA
WINDSOR
Roadway Work
Structure Work
Miscellaneous
SOUTHERN ONTARIO PROJECTS MAP

SUMMARY OF NEW WORK - SOUTHERN ONTARIO HIGHWAYS

An overall summary of capital projects proposed for tender in fiscal 1986-87 is listed below:

Two-Lane	km
. paving	165
. prime and surface treatment	50
. grading and paving	157
. grading	67
	439
Multi-Lane Divided	
. paving	55
. grading and paving	26
	81
Multi-Lane Undivided	
. grading and paving	5
	5
TOTAL	**525**

Bridges	Each
. new structures	16
. structure rehabilitation	67
. structure replacement	4
TOTAL	**87**

CHATHAM DISTRICT

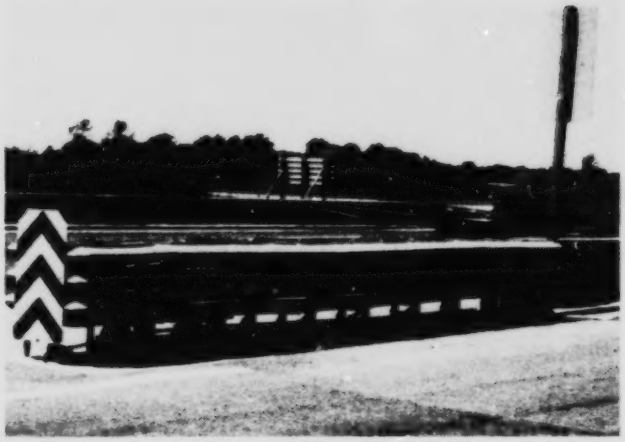
CAPITAL CONSTRUCTION PROJECTS **CHATHAM DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Paving			
85-21	18	From 0.1 km north of Amherstburg north limits northerly.	4.7
41-83-1	Local	Windsor - Intersection improvements at the intersection of Howard Avenue and North Talbot Road, 0.5 km south of Highway 401.	
Grading and Drainage			
258-66-16	ECR	Windsor - Construction of approach embankments for interchange structures at Dominion Boulevard and Huron Church Road. "A portion of the above project is funded under an agreement with the City of Windsor."	
Paving, Grading and Structures			
85-70	21	From Highway 80 northerly to Highway 7, Reece's Corners, including structure replacement at Bear Creek bridge #3 and one structure rehabilitation. Note: The 2.6 km of Highway 21 within the Village of Wyoming is not part of this project.	16.5
Paving and Grading			
95-83-2	21	From 13.4 km north of Dresden north limits northerly to Highway 80.	14.0

CAPITAL CONSTRUCTION PROJECTS **CHATHAM DISTRICT**

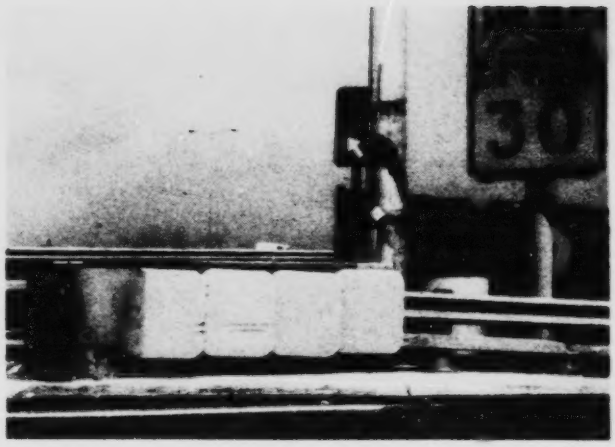
Project Number	Highway Number	Location and Description	Length km
Paving			
102-85-0	401	From 0.5 km west of Belle River Road (interchange #34) easterly to Highway 2 (interchange #56) west of Tilbury (westbound driving lane only).	22.0
Structure Rehabilitation			
399-85-0	2	Rivere Aux Puce (Puce River) 5.2 km west of Belle River west limits.	
101-73-18	402	Sarnia - Murphy Road underpass, 1.8 km west of Highway 40.	
FACILITIES CONSTRUCTION			
85-400	401	Windsor South truck inspection station, 2.0 km east of interchange #21 - site development, scales, services, and building.	

HAZARD PROTECTION - IMPACT ATTENUATORS



G.R.E.A.T. System
(Vermiculite/Concrete filled cells)

Hi-Dro Cushion System
(Water filled cells)



Both systems designed to collapse like an accordian on impact

LONDON DISTRICT

CAPITAL CONSTRUCTION PROJECTS **LONDON DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base, Paving and Structures			
171-77-1	401	Highway 401 exit ramps to Highway 135, including intersection improvements at the junction of Highway 135 and Wellington Road, and including rehabilitation of the Wellington Road underpass.	1.8
Paving and Structure Rehabilitation			
134-80-1	19	From 0.3 km north of Oxford County Road 18, Mount Elgin, northerly to 0.1 km north of Ingersoll south limits including one structure rehabilitation excluding 0.4 km section. "A portion of the above project is funded under a Connecting Link Agreement with the Town of Ingersoll."	10.1
Paving			
85-23	3	From Highway 76, Eagle, easterly to 0.6 km east of Elgin County Road 14, Iona.	20.7
232-77-1	59 3	Highway 59, from Langton south limits northerly 13.3 km to the west junction of Highway 3; and Highway 3 from the east limits of Courtland westerly to 4.8 km west of the east junction of old Highway 3, Tillsonburg.	23.3
147-81-1	24	From Highway 59 easterly.	11.1
27-86-0	401	Interchange ramps at Dorchester Road, Highway 4, Highway 73, Highway 74, Culloden Road, Sweaburg Road, and the entrances and exits of the service centres east of Oxford Road 6.	

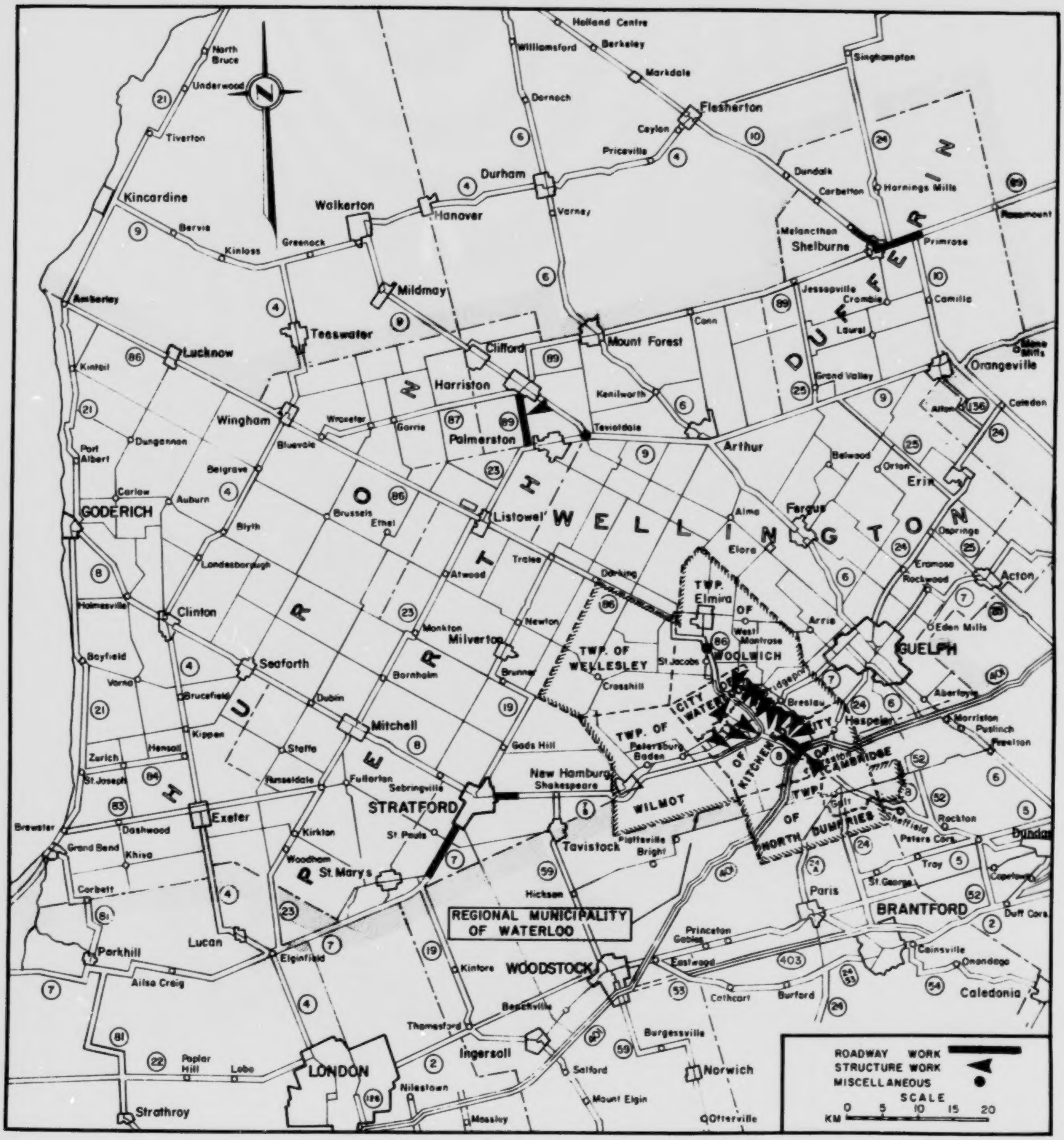
CAPITAL CONSTRUCTION PROJECTS **LONDON DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Structure Rehabilitation			
91-84-1	4	Dodd's Creek bridge, 3.4 km north of the junction of Highway 3 and Kettle Creek bridge, 8.9 km north of Elgin County Road 27.	
47-85-0	401	Canadian National Railway overhead, and Pond Mills Road overpass, 1.6 and 1.0 km west of Highway 126 respectively.	
Miscellaneous			
96-82-1	401	Chain link security fence - London - from Highway 135 (Wellington Road) easterly to Highway 126.	3.3

WORK IN PROGRESS DURING PAST CONSTRUCTION SEASON

Structure replacement on urban highway

STRATFORD DISTRICT

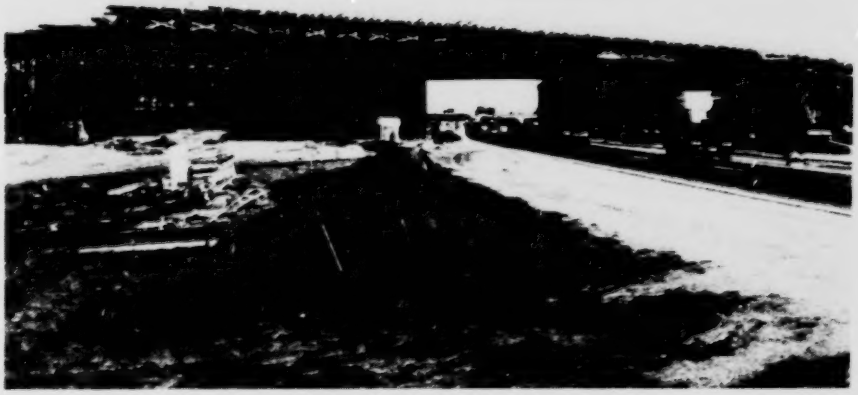


Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base, Paving and Structure			
85-35	8N	Highway 8N, from 0.3 km north-west of existing Highway 8 and Freeport Drive southerly to Highway 401, 3.3 km of grading and drainage; and Highway 401 widening from existing Highway 8 easterly 1.2 km to the Grand River Electric Railway, including the overpass ramp structure on Highway 8 New, southbound to Highway 401 eastbound; and two structure rehabilitations.	4.5
31-76-6	8N	Highway 8N, from 0.4 km north-west of existing Highway 8 and Freeport Drive southerly to Highway 401, 3.5 km of granular base and paving including two structures at Freeport Drive and two structures at Sportsworld Drive; Highway 401 widening from Highway 8 westerly to the Grand River 0.7 km; Highway 8 resurfacing from Pioneer Tower Road northerly to Freeport Drive, 0.7 km. "A portion of the above project is being funded by the Regional Municipality of Waterloo."	4.9
Grading, Drainage, Granular Base and Paving			
85-31	7	From Stratford east limits easterly.	2.9
95-82-01	10	From 0.4 km west of the junction of Highway 24 Shelburne, easterly to 0.4 km east of the junction of Highway 10, Primrose, including 5.3 km of resurfacing from Shelburne northerly to Dufferin County Road 17, Melancthon.	10.2

CAPITAL CONSTRUCTION PROJECTS **STRATFORD DISTRICT**

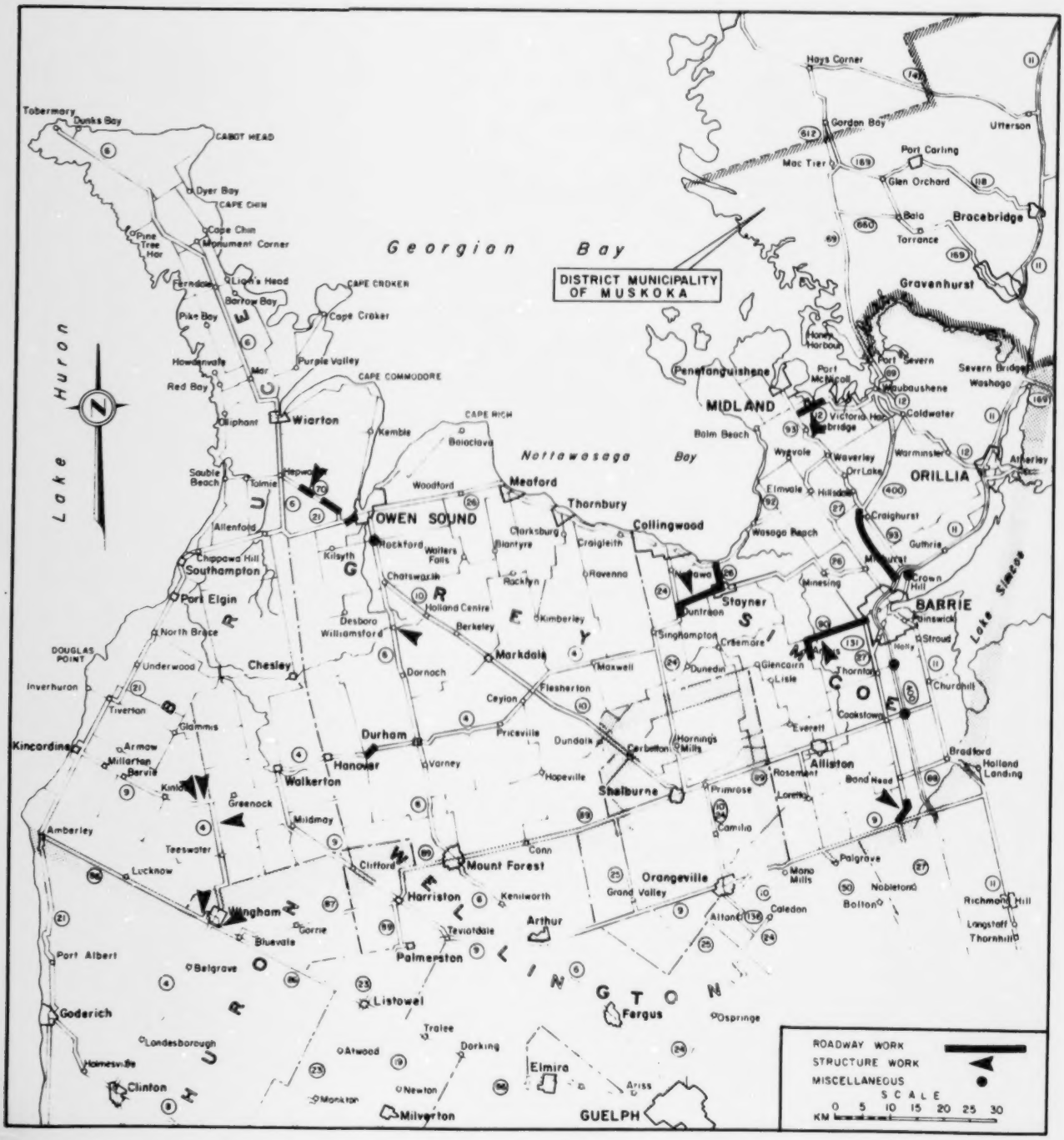
Project Number	Highway Number	Location and Description	Length km
Grading, Drainge, Granular Base and Paving (Cont'd)			
47-84-1	86 Local	Improvements at Waterloo Regional Road 17 and Highway 86 intersection and at the intersection of Waterloo Regional Roads 17 and 8.	
Paving			
77-82-1	7	Stratford south limits southwesterly to 0.7 km south of Perth County Road 28.	9.7
Paving and Structure Rehabilitation			
93-84-1	89 9	From the west junction of Highway 87 to Highway 23 including improvements at the intersection of Highways 9 & 23 and one structure rehabilitation.	8.1
Structure Rehabilitation			
85-47	7	Kitchener - Eastbound and westbound lanes at Krug Street and Guelph Street overpasses, and Frederick Street underpass.	
103-83-1	86	Kitchener/Waterloo - Bridgeport Road overpass eastbound lanes, Lancaster Street underpass, and King Street overpass north and southbound lanes	

WORK IN PROGRESS DURING PAST CONSTRUCTION SEASON



Construction of a new four-lane freeway

OWEN SOUND DISTRICT



CAPITAL CONSTRUCTION PROJECTS **OWEN SOUND DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Paving			
26-85-0	4	From the west junction of Grey County Road 3 easterly to Allan Park.	2.3
85-25	6	From 0.2 km east of Highway 70 easterly. "A portion of the above project is funded under a Connecting Link Agreement with the City of Owen Sound."	2.6
60-84-1	6	Rockford - Intersection improvements at Grey County Road 18.	
63-84-1	11	Interchange improvements at Highway 93.	
85-34	400	Barrie - Interchange construction at Mapleview Drive (Holly Road) Barrie, 3.2 km south of the south junction of Highway 27, including a commuter parking lot in the southwest quadrant of the Essa Road interchange.	
50-84-1	400	Interchange improvements at Highway 89.	
28-86-0	400	Frost heave treatments at various locations between Highway 93 and Highway 11.	

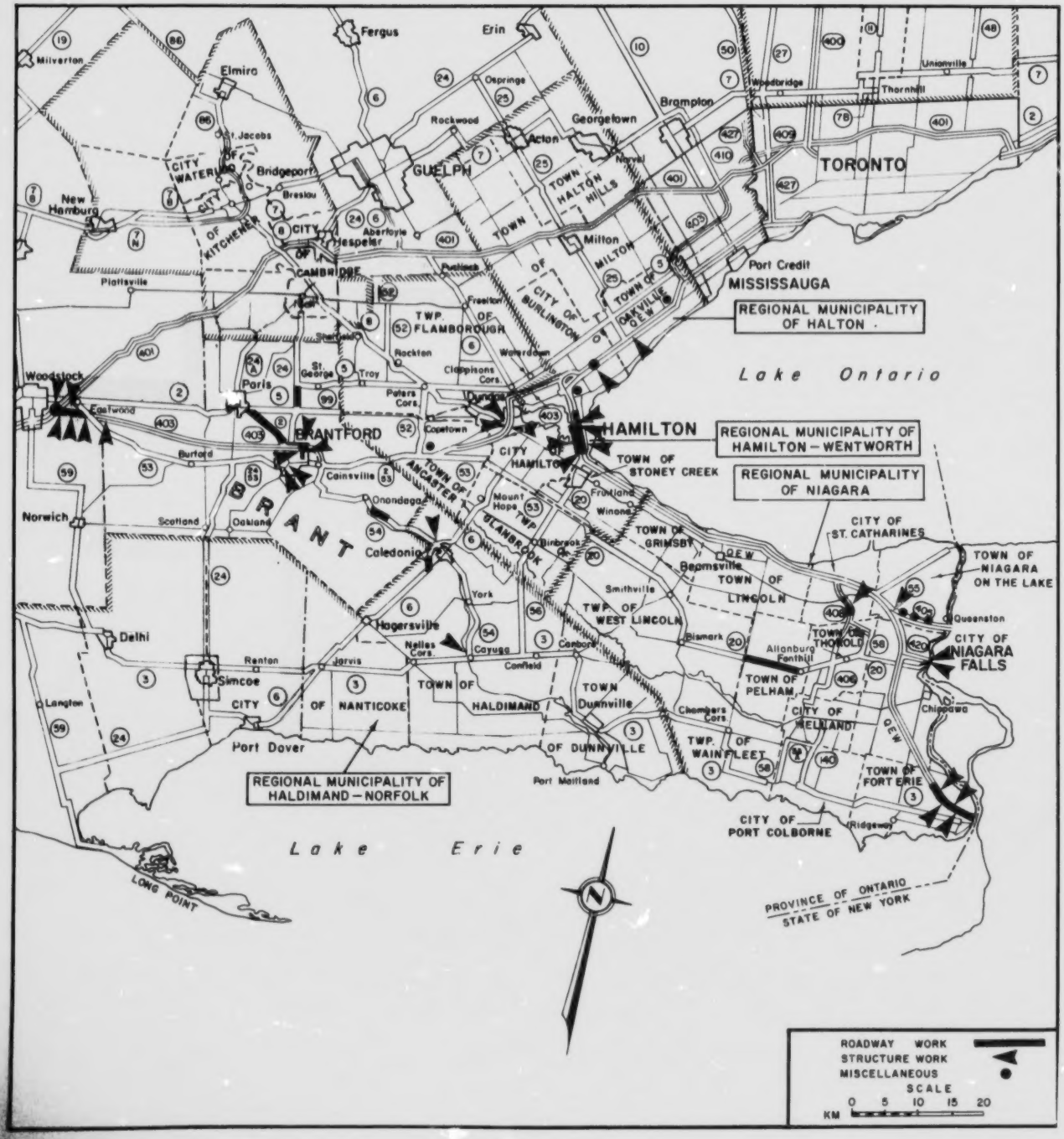
CAPITAL CONSTRUCTION PROJECTS **OWEN SOUND DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Paving and Structure Rehabilitation			
95-80-4	70	From 0.3 km north of Highway 6/21, Springmount northerly to Shallow Lake north limits, excluding from 5.3 km south of Shallow Lake southerly 2.3 km including one structure rehabilitation.	8.8
Paving and Structure Rehabilitation			
165-81-1	12	From Highway 93 to 0.5 km east of Simcoe County Road 37 including one structure rehabilitation.	6.4
92-84-1	27	From 0.2 km north of Highway 9 northerly including one structure rehabilitation.	2.9
85-48	90	From Barrie West limits, westerly to Simcoe County Road 10 (Canadian Forces Base Road), Angus, excluding 1.3 km at the Canadian Pacific Railway overhead, 9.7 km west of Highway 400, and including one structure rehabilitation.	14.4
65-84-1	91 26 24	From Highway 24, Duntroon, easterly to Stayner, on Highway 26, from Stayner to Highway 92, and on Highway 24, from 1.4 km south of Duntroon northerly 1.5 km including 0.7 km of paving in Stayner and one structure rehabilitation. "A portion of the above project is funded under a Connecting Link Agreement with the Town of Stayner."	13.8

CAPITAL CONSTRUCTION PROJECTS **OWEN SOUND DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Structure Replacement and Structure Rehabilitation			
47-75-1	9 4 86	Greenock Creek bridge, 1.3 km west of Highway 4 including four structure rehabilitations.	
Structure Rehabilitation			
123-83-1	6	Hamilton Creek bridge (North Saugeen River) 0.2 km north of Grey County Road 24 in Williamsford.	
Miscellaneous			
162-75-24	11	Landscaping - from 13.8 km north of Highway 11B, Orillia northerly to 2.8 km north of Highway 169, Washago.	
158-77-2	89	Landscaping - from Cookstown west limits westerly to 1.0 km east of Alliston east limits.	
101-85-0	400	Landscaping - Barrie, Molson Park (Mapleview Drive) interchange.	

BURLINGTON DISTRICT



CAPITAL CONSTRUCTION PROJECTS **BURLINGTON DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base, Paving and Structures			
7-85-1	6N	Realignment of Highway 6 at the south end of Highway 6 New, Caledonia Bypass.	1.2
64-76-1	20	From Regional Road 24 easterly to Regional Road 36 in Fonthill, including truck climbing lane just east of Regional Road 28.	8.4
84-1	Local	Hamilton - from service road 3.6 km north of Woodward Avenue, southerly, including Red Hill Creek bridge.	3.6
90-74-1	406	Operational improvements to ramp N-E/W, Glendale Avenue interchange, including Chestnut Street overpass widening.	0.8
85-42	QEW	Approaches to the Burlington Bay Skyway structures.	1.5
169-67-1	QEW	Walker's Line interchange, 6.1 km west of Highway 25, including Walkers' Line underpass.	0.3
83-74-5	QEW	From the south limit of the Burlington Bay Skyway southerly to 1.1 km south of Burlington Street interchange including a noise barrier and widening and rehabilitating the Red Hill Creek and Woodward Avenue structures.	4.9
40-74-13	BSAR	Park Road North from just south of Henry Street to Highway 403, including construction of twin overpass structures over the Canadian National Railway, rehabilitation of the Park Road underpass at Highway 403, and ramp improvements in northwest and southeast quadrants of the Highway 403 and Park Road North interchange.	1.7

CAPITAL CONSTRUCTION PROJECTS **BURLINGTON DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage and Structures			
85-24	403	From Highway 401 easterly to 0.3 km east of Oxford County Road 14, including four structures.	6.4
Granular Base, Paving and Structures			
167-60-4	403	From Highway 401 easterly to 0.3 km east of Oxford County Road 14, including Highway 401 interchange overpass.	6.4
Paving			
166-80-1	2	From Highway 5 Paris easterly to Highway 403.	4.3
181-85-0	2	Highway 24A to Dundas Street, Paris.	0.7
73-84-1	5	From the junction of Highway 99, Osborne Corners northerly to the junction of Highway 24, Howell's Corners.	3.5
396-85-0	406	From Chestnut Street northerly. Southbound lanes.	1.5
Paving and Structure Rehabilitation			
84-84-1	QEW	From Fort Erie to Gilmore Road, including rehabilitation of the Concession Road overpass, Bertie Street overpass, Thompson Road underpass, and the Canadian National Railway overpass.	5.7

CAPITAL CONSTRUCTION PROJECTS **BURLINGTON DISTRICT**

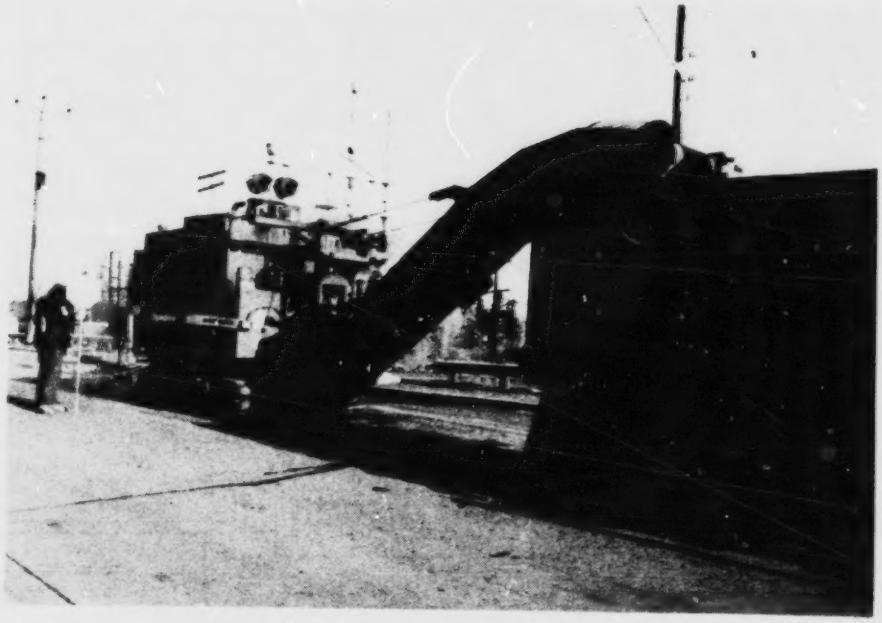
Project Number	Highway Number	Location and Description	Length km
Structure Rehabilitation			
90-84-1	2	Canadian National Railway overhead, 3.6 km. east of Highway 53, Eastwood.	
85-67	54	Canadian National Railway overhead, just north of Highway 3, Cayuga, and including Little Creek bridge, 5.6 km north of Highway 6.	
85-68	403	Hamilton-Desjardin Canal twin bridges, 0.3 km south of York Boulevard interchange, and including Main Street ramp underpass from Highway 403 westbound.	
229-77-3	403	Highway 403/York Boulevard ramp bridge.	
		"To be constructed by others."	
85-76	420 QEW	Niagara Falls - Palmer Road underpass, Ontario Street underpass, and Highway 405 interchange underpass.	
85-75	BSAR	Brantford - Grand River bridge and Market Street overpass.	
85-63	QEW	Old Burlington Bay Skyway - Removal of concrete bridge deck and repair, replace structural steel.	
85-78-1	QEW	Oakville Creek bridge, 6.0 km east of Highway 25.	
210-79-7	QEW	Old Burlington Bay Skyway - concrete bridge deck, including installation of freeway traffic management system.	

CAPITAL CONSTRUCTION PROJECTS **BURLINGTON DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Miscellaneous			
110-84-1	2	Commuter parking lot-Duff's Corners patrol yard, including road widening to provide left turn movement.	
78-79-3	54	Grading, drainage, granular base and paving - from 1.1 km west of Middleport Road, westerly.	1.3
13-82-6	54	Landscaping - Fiddlers Green Road interchange.	
70-77-4	58	Resurfacing and associated structure repairs - Thorold Tunnel, south lane only.	0.7
9-79-5	405	Concrete pavement joint repairs and installation of sub-drains - from the Queen Elizabeth Way easterly to the International Toll Plaza at Queenston, westbound lanes only.	8.9
46-74-54	406	Landscaping - Westchester Crescent to First Street, St. Catharines.	
41-84-1	QEW	Noise barrier - west of Trafalgar Road, on the north side, Oakville.	1.0
152-75-15	QEW	Landscaping - from north of the canal to north of Highway 2 interchange, Burlington.	

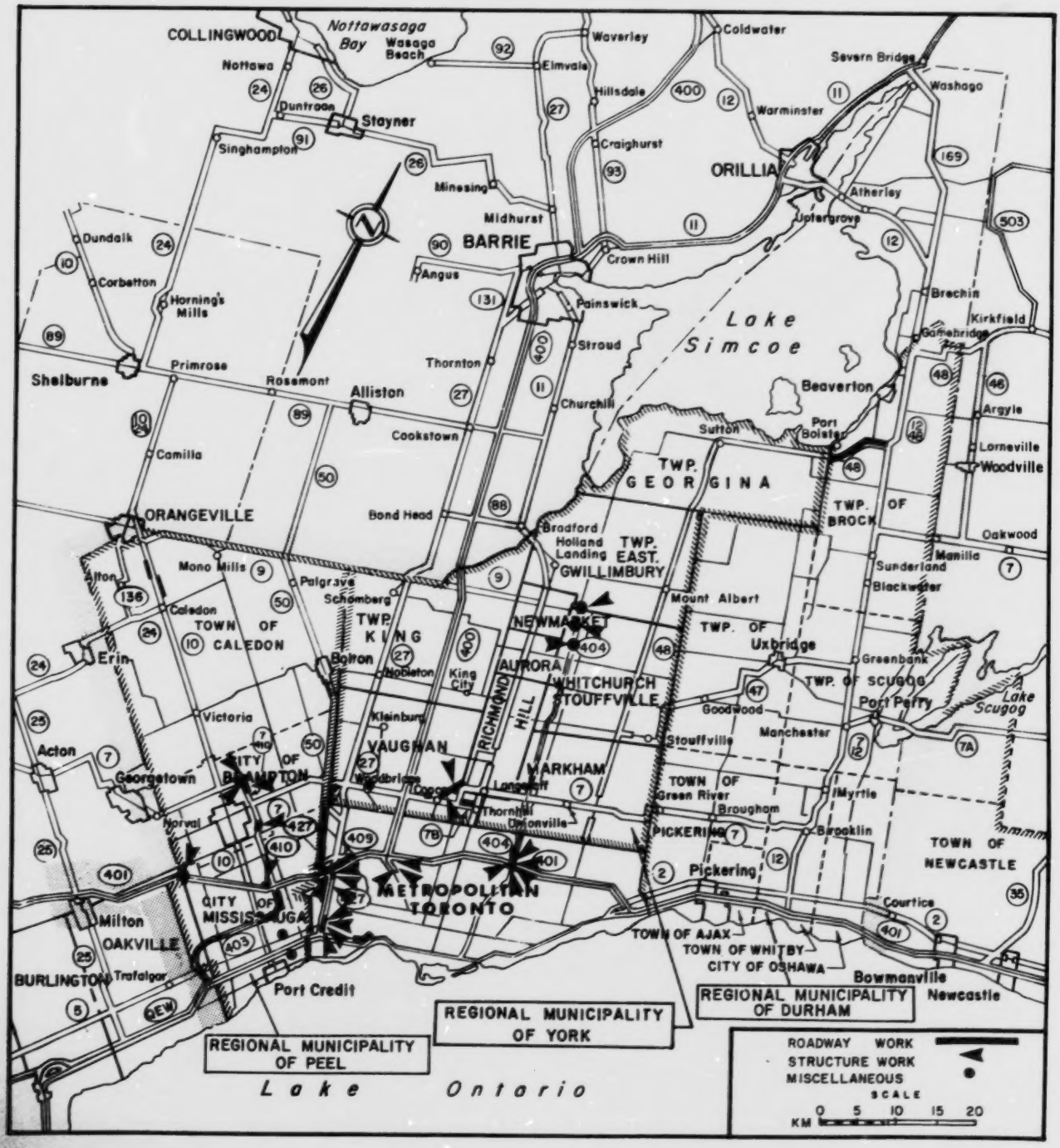
WORK IN PROGRESS DURING PAST CONSTRUCTION SEASON

Hydro Jet-concrete removal



Roto Milling-pavement removal

TORONTO DISTRICT



CAPITAL CONSTRUCTION PROJECTS **TORONTO DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base, Paving and Structures			
84-85	7N	From 0.5 km west of Dufferin Street to 0.3 km east of Bathurst Street including connection to Dufferin Street via Langstaff Road, the Dufferin Street overpass and weigh-in-motion scales.	3.5
85-13	7N	Brampton Bypass - Bovaird Drive, from Highway 410 westerly to east of Kennedy Road including the Highway 410/Bovaird Drive interchange and Highway 410 overpass.	1.7
85-52	7N	From the Canadian National Railway subway, Concord, easterly to 0.5 km west of Dufferin Street including connection to old Highway 7 and widening the Don River bridge.	2.4
167-77-1	401	Winston Churchill Boulevard interchange, 9.3 km west of Highway 10 including the Winston Churchill Boulevard underpass.	
60-85-0	401	Highway 401/Don Valley Parkway interchange - modifications to south to east ramp for access to eastbound core lanes including a noise barrier and rehabilitation of two associated structures.	
85-41	410	Brampton Bypass - from Steeles Avenue northerly to 0.4 km north of Glidden Road including completion of the Clark Boulevard/Davidson Road/Highway 410 interchange ramps and associated work, the Glidden Road twin underpasses, and a retaining wall.	1.8

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base, Paving and Structures (Cont'd)			
21-79-11	410	Brampton Bypass - from Vodden Street northerly to south of Bovaird Drive including the Williams Parkway interchange and underpasses at Williams Parkway and Franceschini Drive.	2.0
Grading, Drainage, Granular Base and Paving			
20-83-1	7	From 0.5 km west to 0.5 km east of Keele Street including turning lanes and a retaining wall.	1.0
11-85-1	7	Construction of continuous left turn lane, 0.7 km east of Highway 27. "To be constructed by others."	0.3
105-86	7	Intersection improvements at Highway 7 and Pine Valley Drive, Woodbridge. "To be constructed by others."	
67-84-1	10	Northbound truck climbing lane from 1.0 km north of Highway 24, Caledon village, northerly 2.4 km including extension of southbound truck climbing lane from 5.7 km north of Highway 24 southerly 1.6 km.	4.0
26-86-0	10	Construction of left turn lane between County Court Boulevard and Steeles Avenue. "To be constructed by others."	
35-86-0	50	Southbound shoulder - from 0.8 km north of Peel Regional Road 14 northerly to 0.4 km south of Healey Road, Bolton.	1.3
127-66-81	403	From Matheson Boulevard southerly to 1.7 km south of Eglinton Avenue.	2.9

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Paving (Cont'd)			
85-73	404	Operational improvements - from relocated Fairview Mall Drive southerly to Highway 401 - southbound lanes.	1.4
Paving and Structure Rehabilitation			
106-83-1	400	Highway 400/Jane Street interchange - structure rehabilitation of the Jane Street overpass and the northbound and southbound Jane Street to Highway 400 northbound ramp structures over Black Creek including associated ramp paving.	
85-77	401	Highway 401/Don Valley Parkway interchange - paving of Don Valley Parkway northbound lanes through the interchange including associated ramps and rehabilitation of three structures.	
85-74	427	Paving of the northbound core lanes from the Queen Elizabeth Way northerly to just north of Highway 5 (Dundas Street), including associated ramps and rehabilitation of seven structures.	2.0
106-81-34	427	Highway 401/427 interchange - paving of Highway 427 northbound lanes from the Highway 27 southbound overpass northerly to just south of Renforth Drive and associated ramps including rehabilitation of three structures.	2.7

CAPITAL CONSTRUCTION PROJECTS **TORONTO DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Paving			
41-85-1	7B	Centre Street, from Yonge Street westerly to Bathurst Street. "To be constructed by others."	2.1
195-79-1	48	From York Regional Road 23, Port Bolster, easterly to Highway 12.	8.6
148-75-22	401	From Highway 409 westerly to just west of Renforth Drive.	5.6
80-84-1	QEW	From 0.1 km east of Grand Avenue easterly to the Humber River.	1.7
44-85-1	Local	Langstaff Road (old Highway 7) - from Bayview Avenue westerly to Church Street. "To be constructed by others."	2.0
Structure and Approaches			
54-82-4	401	First Line East (Kennedy Road) underpass and approaches including associated Highway 401 construction.	0.7
85-56	404	Advance structures and approaches at St. John's Road, York Regional Road 12 (Mulock Drive), and York Regional Road 31 (Davis Drive).	
Structure Rehabilitation			
106-81-7	427	Burnhamthorpe Road underpass.	

CAPITAL CONSTRUCTION PROJECTS **TORONTO DISTRICT**

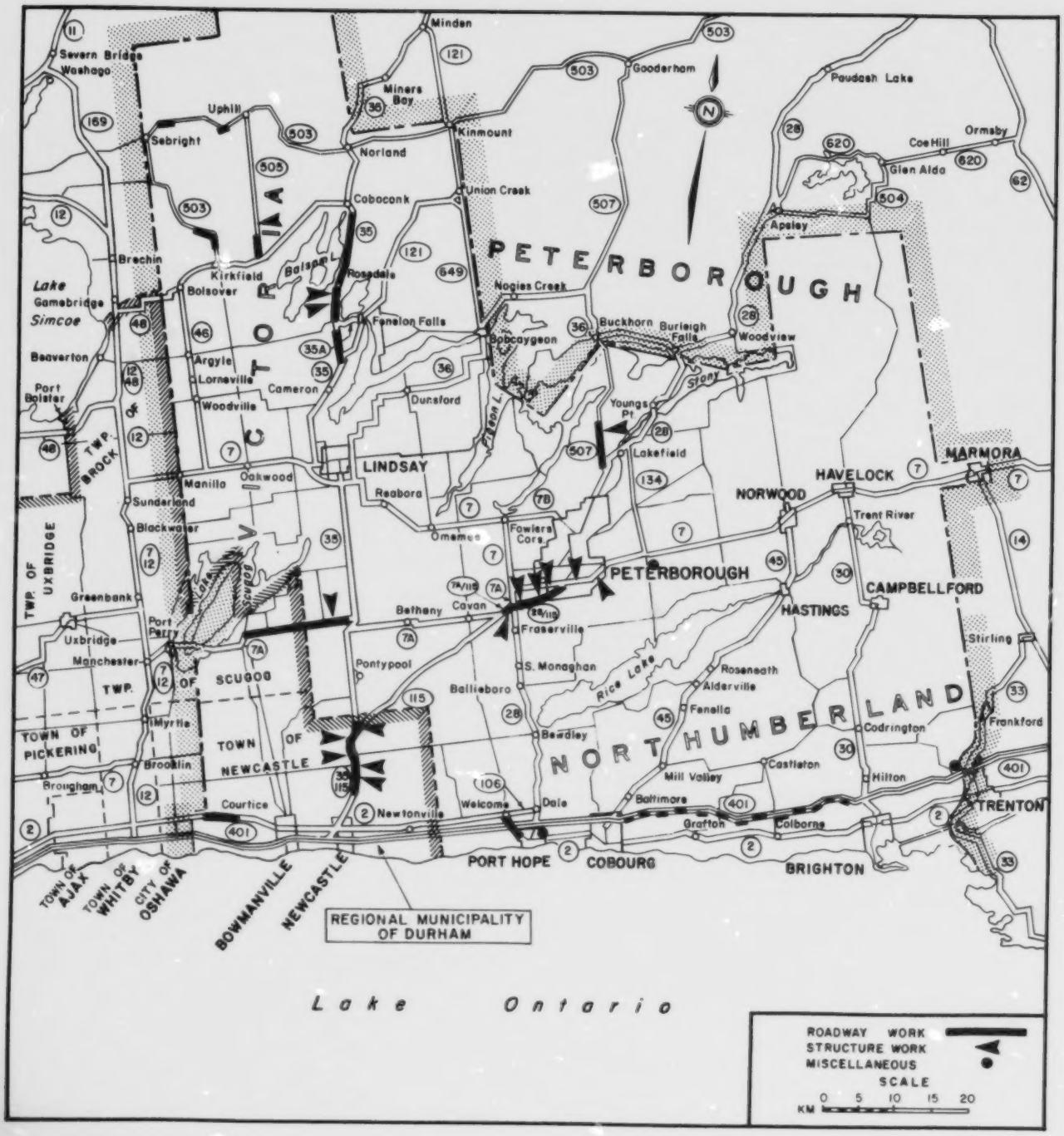
Project Number	Highway Number	Location and Description	Length km
Miscellaneous			
71-65-3	7	Landscaping - from 0.5 km east of Durham Regional Road 1, Brougham, easterly to Highway 12, Brooklin.	
40-85-1	7N	Landscaping - Brampton Bypass - Bovaird Drive, from Highway 410 westerly to east of Kennedy Road including Highway 410/Bovaird Drive interchange.	
10-82-2	50	Landscaping - from Steeles Avenue northerly to Gore Road.	
38-77-5	401	Landscaping - Thickson Road interchange, Whibty.	
30-81-2	401	Freeway traffic management system - supply and install computer and associated peripheral equipment.	
30-81-3	401	Freeway traffic management system - from Highway 427 to Highway 404. Design, manufacture and install fibre optics communications subsystem.	
30-81-5	401	Freeway traffic management system - from Renforth Drive to Islington Avenue. Provisions for civil works.	
30-81-6	401	Freeway traffic management system - from Highway 427 to Highway 404. Supply and install provisions for freeway traffic management system elements, power cable and cabinets.	

CAPITAL CONSTRUCTION PROJECTS **TORONTO DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Miscellaneous (Cont'd)			
78-84-1	401	Paved shoulder rehabilitation - from 0.3 km east of Warden Avenue easterly to 1.0 km east of Neilson Road. Eastbound and westbound core lanes.	8.3
46-85-0	401	Routing and crack sealing - from Yonge Street westerly to Kipling Avenue.	
245-85-0	401	Landscaping - Highway 401/Liverpool Road interchange.	
156-75-6	403	Landscaping - from the Credit River bridge easterly to west of Highway 10.	
19-85-1	404	Drainage improvements - from John Street northerly to Highway 7.	
324-84-0	404	Landscaping - on the west side of Highway 404, from Sheppard Avenue northerly.	
21-79-26	410	Landscaping - on the east side of Highway 410, from Steeles Avenue northerly to Vodden Street including Heart Lake Road between Bramsteele Road and Orenda Road.	
54-82-8	410	Relocation of hydro tower line in the Highway 401/403/410 interchange area.	
		"To be constructed by others."	1.6
49-71-16	427	Landscaping - from Rexdale Boulevard interchange northerly to just north of the Humber River.	

Project Number	Highway Number	Location and Description	Length km
Miscellaneous (Cont'd)			
40-84-1	QEW	Noise barrier - east of Dixie Road, on the south and north sides.	1.6
49-71-17	Local	Landscaping - Eighth Line Extension, from Steeles Avenue southerly to north of Darcel Avenue.	

PORT HOPE DISTRICT



CAPITAL CONSTRUCTION PROJECTS **PORT HOPE DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base, Paving and Structures			
84-42	35	From 0.6 km south of Highway 121 northerly to Rosedale excluding 2.1 km at Highway 35A, including rehabilitation of the Cameron Lake bridge and the Trent Canal bridge.	9.7
85-39	35	From the south entrance to Orono northerly to north of Taunton Road interchange (Durham Regional Road 4), including Fifth Line township road underpass and Taunton Road overpass.	4.6
7-79-2	35	From 0.1 km north of Taunton Road (Durham Regional Road 4) northerly to 1.0 km northeast of junction of Highway 115, Enterprise Hill including Seventh Line and Eighth Line Township Road underpasses and Highway 115 underpass.	8.7
85-40	115	From 1.0 km south-west of Highway 28 north-easterly to 1.0 km south-west of Highway 7 at the Queensway, including three associated structures and bridge deck rehabilitation on Highway 28 overpass.	6.5
90-77-9	505	Urban reconstruction through the hamlet of Victoria Road including 1.7 km of paving from Highway 48 northerly and structural rehabilitation of the Talbot River bridge, 4.3 km north of Highway 48.	0.3

CAPITAL CONSTRUCTION PROJECTS **PORT HOPE DISTRICT**

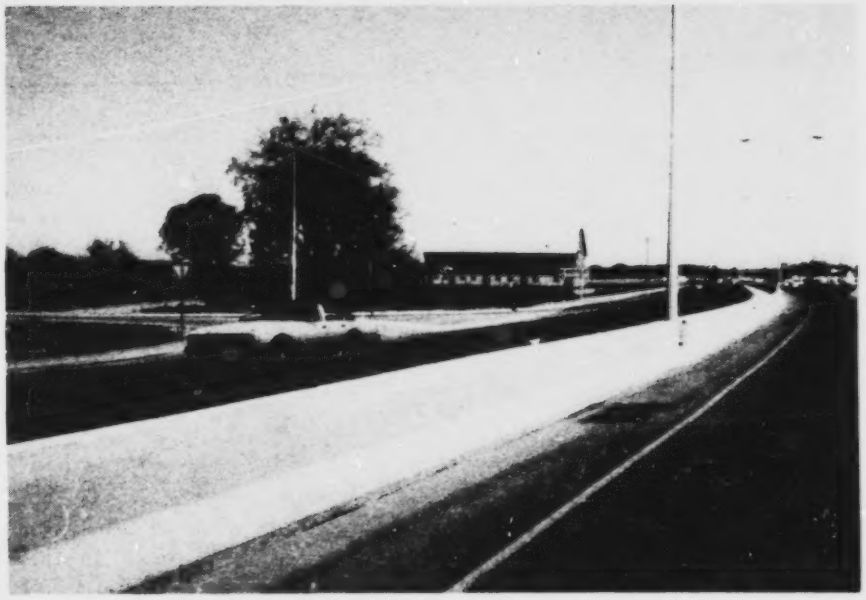
Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Paving			
110-72-1	2	From Townline Road, at Ottawa east limits, easterly to 0.2 km east of Durham Road 34, Courtice.	3.1
75-80-1	2	From Charles Street, Port Hope, northerly to Highway 106 including a commuter parking lot south of the Highway 401/2 interchange.	3.9
82-77-2	35	From Rosedale northerly to 0.8 km south of Highway 48, Coboconk.	9.4
Grading, Drainage and Granular Base			
85-2	503	From 3.7 km north of Highway 48 northerly to McGees Creek.	4.9
Paving and Structures			
56-81-1	7A	From north junction of Highway 35 westerly to north junction of Durham Regional Road 57 (Ceasarea Road) including 0.6 km of urban reconstruction through Nestleton Station and structural rehabilitation of the Pigeon River bridge.	13.9
6-65-1	507	From Highway 28 northerly to 1.8 km north of Peterborough Road 20 at Selwyn including the Snelgrove Brook culvert, 6.4 km north of Highway 28.	10.1
Paving			
85-69	401	From Burnham Street, Cobourg, easterly to Highway 30. Eastbound and westbound driving lanes at various locations.	27.7

CAPITAL CONSTRUCTION PROJECTS **PORT HOPE DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Structure Rehabilitation			
155-83-1	7	Peterborough Bypass - Otonabee River bridge, Canadian National Railway overhead and Canadian Pacific Railway overhead.	
Miscellaneous			
19-81-10	7	Landscaping - Peterborough Bypass, from the Queensway easterly to Highway 7B.	
23-86-0	7	Commuter parking lot - paving of lot in the south-east quadrant of intersection of Highway 7 and Highway 134.	
82-77-5	35	Landscaping - from 0.6 km south of Highway 121, Powles Corners, northerly to Rosedale.	
7-79-14	35	Landscaping - from the Canadian Pacific Railway overhead, north of Highway 2 interchange, to the south entrance to Orono.	
232-85-0	35	Landscaping - from the south entrance to Orono northerly to Durham Regional Road 4 (Taunton Road).	
103-86-0	35 401	Crack sealing - from Oshawa east limits easterly to Highway 35 including Highway 35 from Highway 401 northerly to south entrance to Orono (north junction Durham Regional Road 17).	
22-86-0	401	Commuter parking lot - paving of extension to the lot at Highway 401 and Wooler Road.	

Project Number	Highway Number	Location and Description	Length km
Miscellaneous (Cont'd)			
24-86-0	401	Commuter parking lot - construction of extension to the lot in the south-east quadrant of the Highway 401 and Highway 28 interchange.	
246-85-0	401	Landscaping - north side of Highway 401, east of Bennett Road (east of Bowmanville).	
7202-83-5	503	Double surface treatment - from 3.7 km north of Highway 48 northerly to McGees Creek.	4.6
1616-85-0	503	Drainage improvements, granular base and double surface treatment - from 3.7 km and 11.7 km east of Victoria County Road 45, Sebright, easterly 2.2 km and 1.4 km respectively.	3.6

WORK DURING PAST CONSTRUCTION SEASON



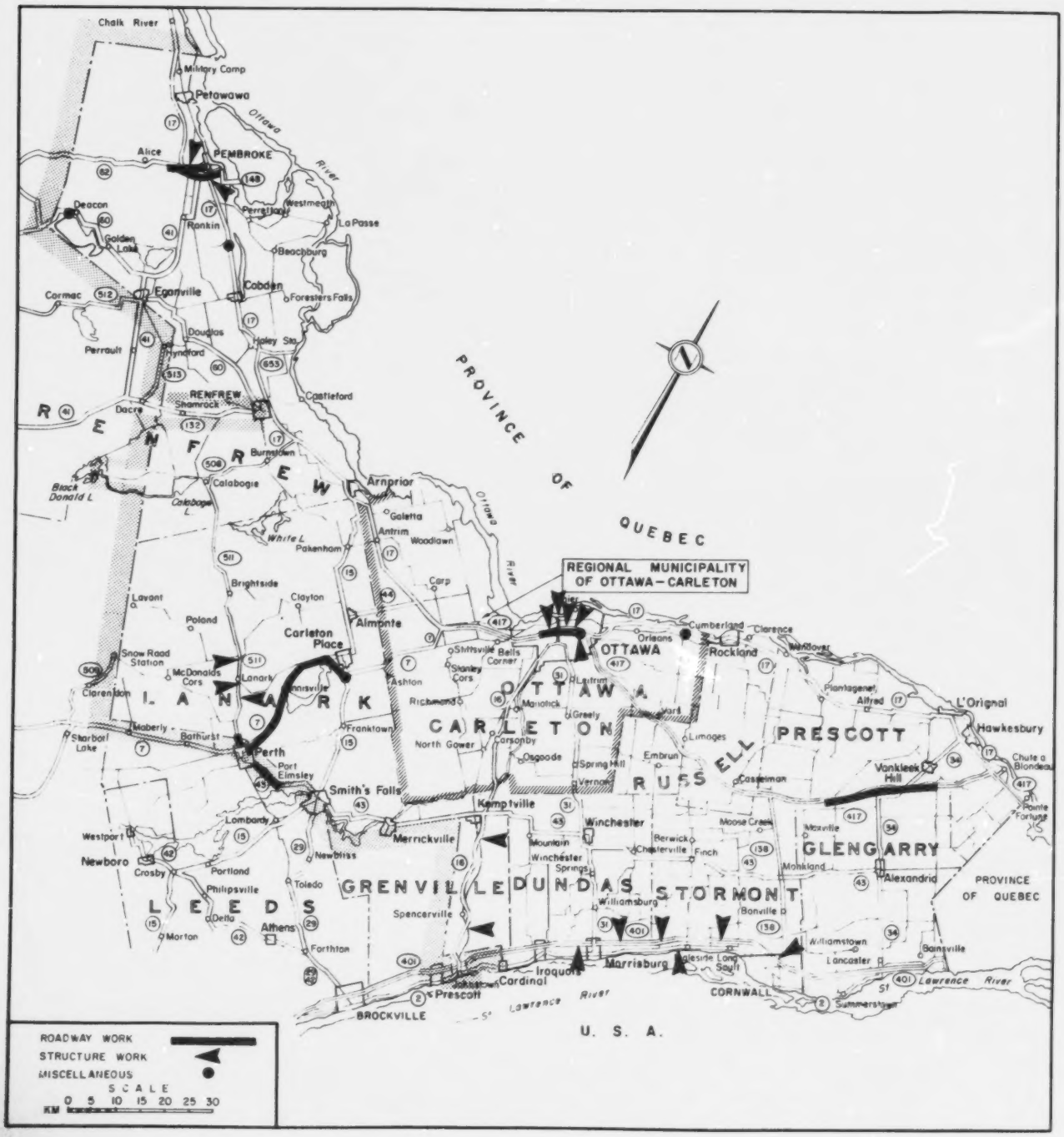
Reconstruction - widening from two-lanes to four-lanes with concrete median-barrier.

KINGSTON DISTRICT

CAPITAL CONSTRUCTION PROJECTS **KINGSTON DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Paving			
38-84-3	37	Alignment improvements north and south of County Road 8, north of Belleville.	1.5
Paving			
119-85-1	401	From Trenton to Belleville, various locations, eastbound lanes.	12.9
Structure Rehabilitation			
234-85-1	401	Joyceville Road underpass, east of Kingston.	
7410-84-1	401	Highway 37 underpass at Belleville.	
Miscellaneous			
38-84-2	37	Intersection improvement at Thomasburg, south of Tweed.	

OTTAWA DISTRICT



Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base, Paving and Structures			
87-80-1	41 New 62 Local	Pembroke - from Olympic Drive southerly to Highway 41, including two new structures at Muskrat River. Also including paving on Highway 62 from Pembroke westerly 4.9 km and paving on Boundary Road from Highway 62 easterly to Highway 148, 2.7 km.	0.5
84-69	417	Ottawa Queensway - From Island Park Drive easterly to Bronson Avenue, including structure rehabilitation at nine locations.	2.6
85-64	417	Ottawa Queensway - From Bronson Avenue easterly to Nicholas Street including structure rehabilitation at nine locations, also noise barriers from the Rideau Canal bridge easterly both sides for 0.6 km.	2.7
62-82-1	417	Ottawa Queensway - St. Laurent Boulevard interchange reconstruction with associated structures. Also including a transit underpass for the Regional Municipality of Ottawa Carleton transitway. "The above project is partially recoverable".	
Paving			
85-05	7 43 511	From Perth easterly to McGarry Creek, including partial paved shoulders from McGarry Creek easterly to Carleton Place, 20.0 km and intersection improvement at Highway 7, 15 and 29. Also including paving on Highway 43 from Perth easterly to Port Elmsley, 9.9 km and paving on Highway 511, from Highway 7 northerly 0.7 km.	12.6

CAPITAL CONSTRUCTION PROJECTS **OTTAWA DISTRICT**

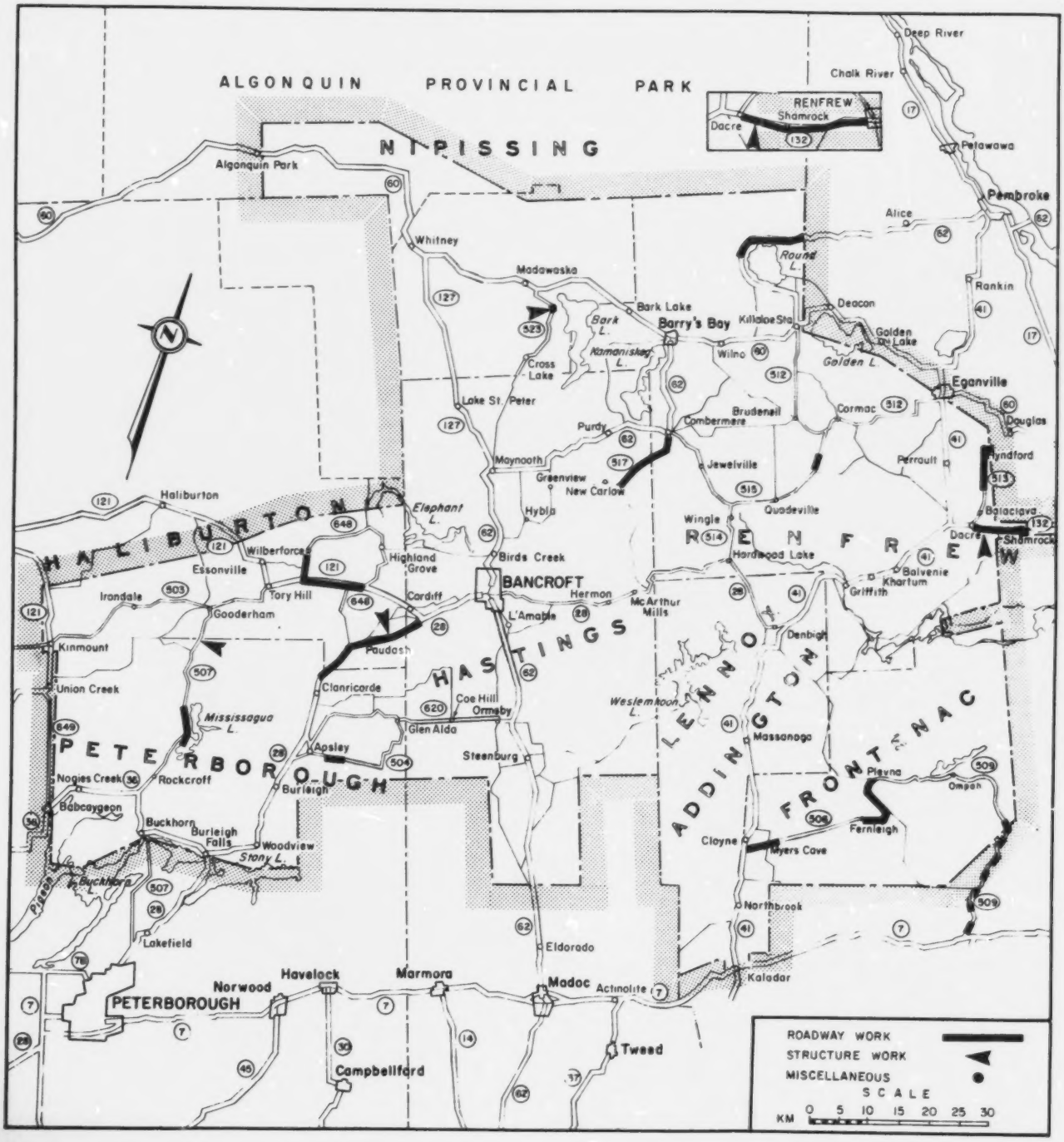
Project Number	Highway Number	Location and Description	Length km
Paving (Cont'd)			
36-66-16 37-66-20	417	From 7.2 km east of Highway 34 westerly.	26.7
Structure Replacement			
85-84-1	417	Ottawa Queensway - Widening of Hurdman bridges over the Rideau River.	
Structure Rehabilitation			
37-81-1	2 401	Hoople Creek bridge on Highway 2 and five additional rehabilitations on Highway 401 between Iroquois and Cornwall.	
85-51	16	Canadian Pacific Railway overhead south of Highway 43 and the South Nation River bridge north of Highway 401.	
8-85-1	401	Pitt Street overpass, eastbound lane at Cornwall.	
70-83-1	511	Clyde River bridge, in the village of Lanark, also including the Mississippi River bridge south of Lanark and the Clyde River bridge north of Lanark.	
43-85-1	Local	MacDonald Cartier Interprovincial bridge over the Ottawa River between Ottawa and Hull. "To be constructed by others on a cost-sharing basis with the Governments of Canada, Quebec and Ontario".	

CAPITAL CONSTRUCTION PROJECTS

OTTAWA DISTRICT

Project Number	Highway Number	Location and Description	Length km
Miscellaneous			
9-85-1	17	Re-alignment at rock cut - near Meath, south of Pembroke.	
96-84-1	17	Intersection improvement - at Canaan Road, the boundary between Cumberland and Clarence townships.	
256-85-1	60	Culvert replacement - at Deacon, east of Killaloe station.	
FACILITIES CONSTRUCTION			
2710-82-2	401	Summerstown patrol yard - twelve bay garage, associated services and paving.	

BANCROFT DISTRICT



CAPITAL CONSTRUCTION PROJECTS **BANCROFT DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Paving			
209-79-1	62	From Bonnechere northerly to Richards/Fraser township line.	13.0
26-79-1	648 121	From the west junction of Highway 121 northerly to Wilberforce, including 11.4 km of paving on Highway 121, from the east junction of Highway 648 westerly.	7.8
Grading, Drainage and Granular Base			
164-81-1	507	From 10.0 km south of Catchacoma northerly.	7.0
31-83-1	513	From 15.5 km north of Highway 132 northerly. "To be constructed by others".	0.3
Paving and Grading			
161-79-1	132	From Secondary Highway 513 easterly to Renfrew including Constan Creek bridge, 2.1 km east of Secondary Highway 513.	25.0
Paving			
53-81-1	28 507	From 14.4 km north of Secondary Highway 504 northerly and structure rehabilitation at Crowe River bridge south of Highway 121, also including the Irondale River bridge on Secondary Highway 507.	14.3

CAPITAL CONSTRUCTION PROJECTS — BANCROFT DISTRICT

Project Number	Highway Number	Location and Description	Length km
Prime and Surface Treatment			
49-79-2	506	From Plevna westerly to Fernleigh. Also, from Highway 41 easterly to Marble Lake, 5.7 km.	12.5

FACILITIES CONSTRUCTION

2702-84-2	60	Whitney patrol yard - two bay extension. "By local labour, equipment and materials."	

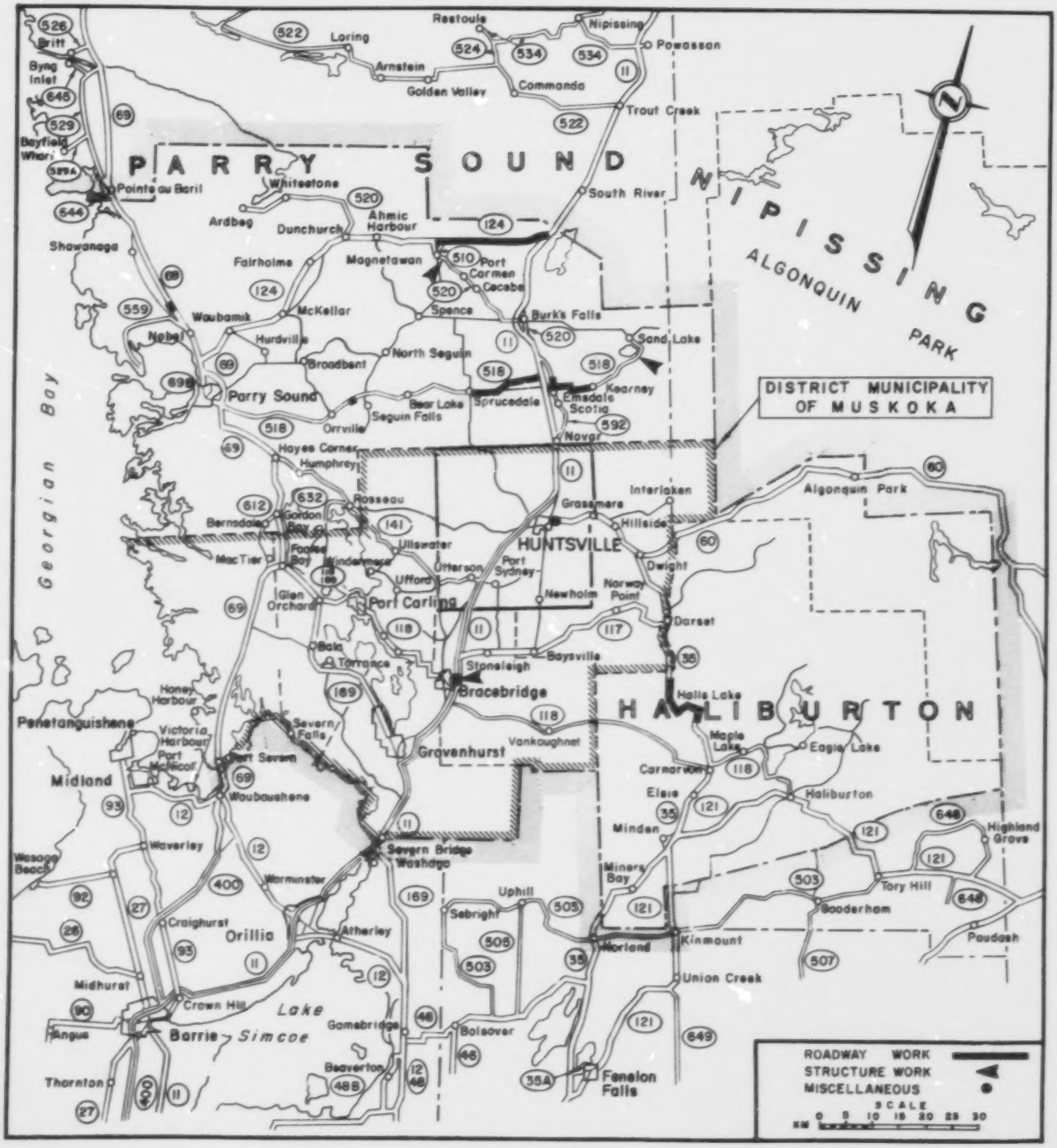
MAINTENANCE CAPITAL

Grading, Drainage and Granular Base			
1611-85-3	504	From 3.0 km east of Highway 620A easterly.	3.2
1614-85-2	509	From Highway 7 northerly to Snow Road, various locations.	18.5
1612-85-1	513	From 7.4 km north of the junction of Secondary Highway 513 and Highway 132 northerly.	8.5
1613-85-1	517	From the junction of Secondary Highway 517 and Carlow Road easterly to Highway 62.	15.5

CAPITAL CONSTRUCTION PROJECTS **BANCROFT DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Prime and Surface Treatment			
1612-85-2	513	From 7.4 km north of junction of Secondary Highway 513 and Highway 132 northerly.	8.5
1610-85-5	515	From 3.8 km west of Secondary Highway 512 westerly.	2.4
1613-85-2	517	From junction of Secondary Highway 517 and Carlow Road easterly.	15.5
Miscellaneous			
1611-85-8	504	Drilling and blasting - from 3.0 km east of Secondary Highway 620A easterly, at various locations.	3.2

HUNTSVILLE DISTRICT



CAPITAL CONSTRUCTION PROJECTS **HUNTSVILLE DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base, Paving and Structure			
33-77-1	11	Taylor Road interchange, north entrance to Bracebridge, including landfill service road from Taylor Road northerly, 1.0 km.	1.0
Grading, Drainage, Granular Base and Paving			
132-83-1	69	Passing lanes, northbound, from 1.0 km north of Secondary Highway 559, northerly, and southbound from 5.5 km north of Secondary Highway 559, southerly, including crushed gravel on shoulders, various locations.	4.5
61-79-4	518	From Highway 11, easterly including urban sections in Emsdale and Kearney, cold mix paving at various locations including Secondary Highways 520 and 592, paving local street in Kearney, and frost heave treatment on Highway 11. "This above project is partially recoverable."	9.5
160-81-1	518	From Highway 11, westerly to Sprucedale.	13.2
Paving			
76-63-2	35	From 12.5 km south of Highway 117 at Dorset, southerly, including crushed gravel stockpile.	13.8
Paving and Structure Rehabilitation			
85-65	124	From Highway 11, westerly including structure rehabilitation of Distress River bridge on Secondary Highway 520, hot mix patching from Secondary Highway 520 westerly, various locations, frost heave treatment on Highway 11 in Sundridge, and crushed gravel stockpile.	20.1

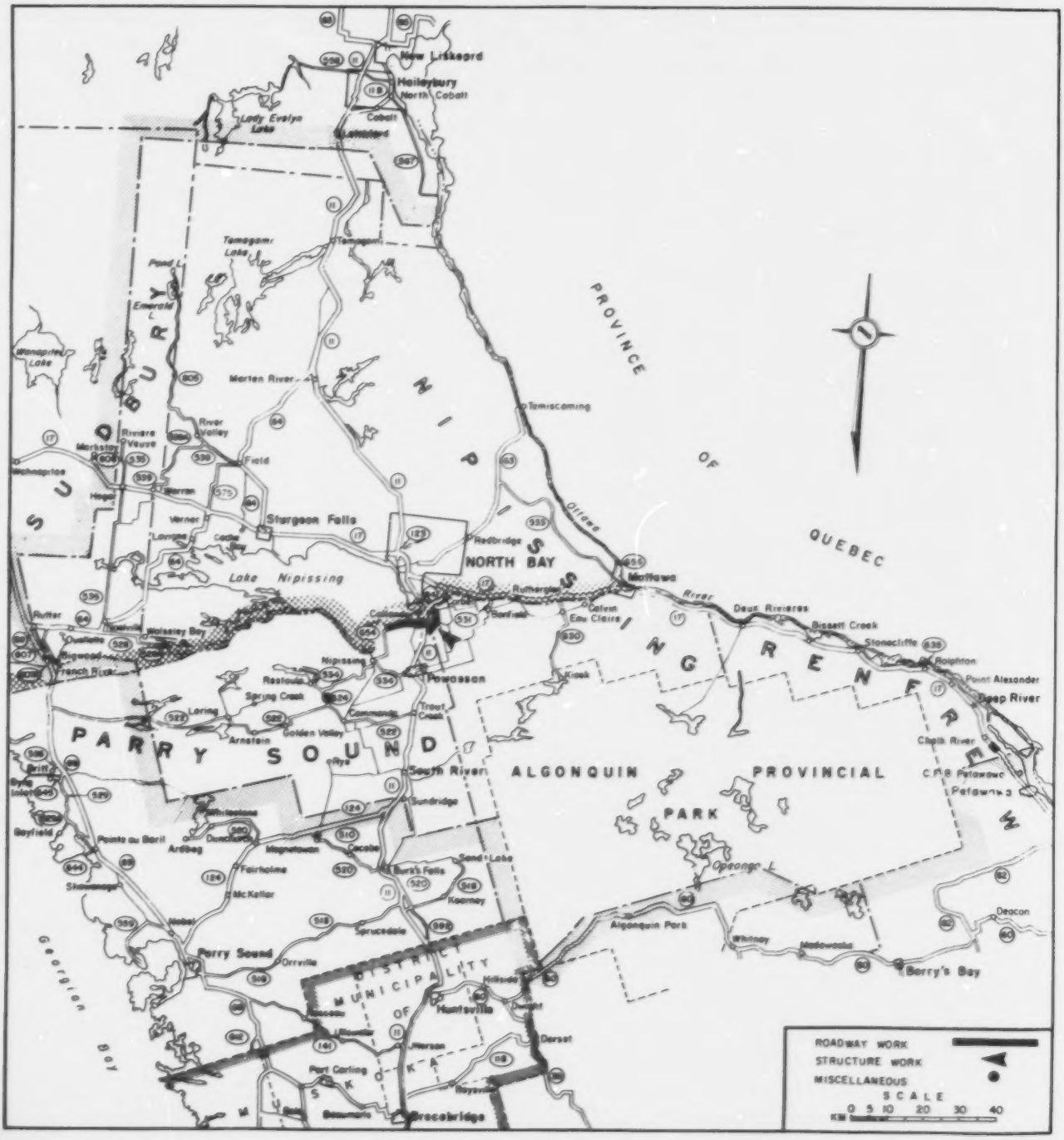
MAINTENANCE CAPITAL PROJECTS **HUNTSVILLE DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Structure and Approaches			
85-53	518	Magnetawan River Bridge, 13.2 km east of Kearney.	0.8
Grading, Drainage, Granular Base and Paving			
368-85-0	60	Left turn storage, from Muskoka Road 3, easterly.	0.3
Granular Base			
1601-85-2	518	From 13.7 km west of Sprucedale, westerly.	3.0

WORK COMPLETED DURING PAST CONSTRUCTION SEASON

Reconstruction of Secondary Highways

NORTH BAY DISTRICT SOUTH



CAPITAL CONSTRUCTION PROJECTS — NORTH BAY DISTRICT

Project Number	Highway Number	Location and Description	Length km
Grading, Draingae, Granular Base, Paving and Structures			
138-76-1	654	From Highway 11, westerly including Wasi River bridge widening.	13.0
Grading, Drainage, Granular Base and Paving			
133-83-1	17	Passing lanes, eastbound, from 5.2 km east of Main Street Chalk River, easterly and westbound from 8.7 km east of Main Street Chalk River, westerly, including hot mix patching at various locations, and crushed gravel stockpile.	4.0
Grading, Drainage, Granular Base and Structures			
85-36	11N	From 2.2 km south of Highway 94, Callander, southerly, including twin overpass structures at Mountain Road and Astorville Road.	4.5

MAINTENANCE CAPITAL PROJECTS

Miscellaneous

1607-85-2	524	Culverts and frost heaves, various locations.	2.5

SUDBURY DISTRICT SOUTH

ROADWAY WORK
STRUCTURE WORK
MISCELLANEOUS
SCALE
KM 0 5 10 20 30 40

CAPITAL CONSTRUCTION PROJECTS — SUDBURY DISTRICT

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Paving			
85-57	69	Passing lanes, northbound, from 1.1 km north of Secondary Highway 526, northerly, and southbound, from Key River bridge, southerly.	5.1
Structure Rehabilitation			
85-37	69	Canadian National Railway overhead at Cranberry Lake, 0.1 km south of Secondary Highway 522.	
13-85-1	69	Canadian Pacific Railway and Still River overhead, 0.3 km south of Secondary Highway 526.	

MAINTENANCE CAPITAL PROJECTS

Granular Base			
1608-85-2	529A	From 2.0 km west of Secondary Highway 529, westerly.	1.2

Ontario

Ministry of Northern Development and Mines

Minister: Rene Fontaine

Deputy Minister: George Tough

Ministry of Transportation and Communications

Minister: Ed Fulton

Deputy Minister: David Hollas

Northern Transportation Construction Projects 1986-87

THE COVER

Illustrated on this year's cover is the bridge which spans the Montreal River on Highway 11, at Latchford.

This bridge, formerly known as the Montreal River Bridge, will be re-named the "SGT. AUBREY COSENS, V.C. MEMORIAL BRIDGE" in memory of a war hero from this locality.

Dedication ceremonies are planned for the spring of 1986, at which time a Historical Plaque will be unveiled in the park adjacent to the bridge.

Ontario

Ministry of
Northern Development
and Mines

Ministry of
Transportation and
Communications

Northern Transportation Construction Projects 1986-87

ISSN 0822-1480

April 1986

Foreword

This publication presents the proposed Capital Construction Plan for Northern Ontario King's Highways and Secondary Highways, Transportation Development Roads and Remote Airports for the 1986 fiscal year. Included, are projects currently under construction that will entail significant expenditures, as well as new projects that will begin this year.

The Ministry of Northern Development and Mines establishes the priorities and provides the capital funding for these projects. The Ministry of Transportation and Communications is responsible for the design and construction, as well as funding road maintenance and related facilities construction.

The transportation system is vital to the continuing growth of Northern Ontario. The objective of the Ministry of Northern Development and Mines is to provide a first class transportation system that contributes to the economic and social development of Northern Ontario. The Capital Construction Plan will continue upgrading the existing system and will include expansion of the network, where appropriate. These objectives must be consistent with today's economic climate. To this end, each project has been selected on a priority basis to ensure that the available funds are used to the maximum benefit of all residents of Northern Ontario.

The following paragraphs highlight some of the major work proposed for this year:

King's and Secondary Highways

- Major work projects will include continuing staged construction on the Kenora Bypass, Sudbury North-west Bypass, the start of construction on the Smooth Rock Falls Bypass and widening of Highway 101 between Schumacher and South Porcupine.

- Rehabilitation work on the King's Highway system will include Highway 65 east of Elk Lake, Highway 11 between Driftwood and Smooth Rock Falls, Highway 6 north and south of Manitowaning, Highway 17 east of Nairn Centre, Highway 129 north and south of Highway 556, Highway 17 north of Wawa, Highway 11 west of Atikokan, and Highway 17 east of Upsala.

- Rehabilitation work on Secondary Highways will include Secondary Highway 575 north of Highway 17, Secondary Highway 560 east of Elk Lake, Secondary Highway 527 north of the Dorion Road and Secondary Highway 622 north of Sumac Road in Atikokan.

- The construction of passing lanes and paved shoulders which have proven to be very effective from a safety and operational viewpoint, will continue in 1986.

Transportation Development Roads:

- A contract will be tendered to build a further 10.0 km section on the Bending Lake Road project.

- The reconstruction of Secondary Highway 587 between Highway 11/17 and Sibley Provincial Park will be undertaken in 1986.

Remote Airports:

- Work is scheduled to continue in 1986 on the new airports at Muskrat Dam and Kingfisher Lake.

- Work will continue on the major runway extension to Ogoki Post.

- Funds have been allocated to purchase equipment for a new airport at Wapekeka.

- Capital improvements will be undertaken at 14 existing remote airports.

The Ministry of Northern Development and Mines and the Ministry of Transportation and Communications hope that the release of this book will increase the public's awareness of the Government of Ontario's continued efforts to maintain and improve Northern Ontario's transportation system.

Rene Fontaine

Rene Fontaine
Minister of
Northern Development
and Mines

CONSTRUCTION PROJECTS - NORTHERN ONTARIO

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NOTE: Construction projects listed under the various districts are either new work or contracts under construction with a substantial amount of work yet to be carried out this fiscal year.

FINANCIAL SUMMARY - NORTHERN ONTARIO

Northern Highways, Capital and Construction	Value of Projects	Expenditure Fiscal 1986-87
. capital construction projects	$88,700,000	$56,700,000
. preliminary project work	300,000	300,000
. miscellaneous construction	2,000,000	2,000,000
. minor capital projects	4,200,000	4,200,000
TOTAL	$95,200,000	$63,200,000
FUNDS TO BE VOTED - VOTE 2403 item 1		**$63,200,000**
Transportation Development Roads		
. capital construction projects	$ 7,100,000	$ 4,600,000
FUNDS TO BE VOTED WITHIN VOTE 2403 item 1		**$ 4,600,000**
Remote Airports		
. remote airports construction	2,900,000	2,900,000
FUNDS TO BE VOTED WITHIN VOTE 2403 item 1		**2,900,000**

EXPLANATION OF FINANCIAL CATEGORIES

Capital Construction Projects

This represents the greatest part of the construction activities and consists of major contract work on northern provincial highways. Included, are contracts carried over from previous fiscal years, as well as proposed new work.

Preliminary Project Work

The estimated costs of such items as utility relocation, advance ordering of construction materials and other work that must be undertaken prior to a contract award, are allocated to this category.

Miscellaneous Construction

This covers a variety of work which is not provided for in the other categories, such as:

(i) Projects in which the Ministry is involved as an owner or as an interested party. In many cases the work is carried out by a municipality or other agency, and a portion of the cost is paid by the Ministry of Northern Development and Mines.

(ii) Service Contracts - consisting of work supplementary to other contracts such as seeding and mulching.

(iii) Railway Level Crossing Protection - consisting of the installation of automatic signal protection, or the modernization of existing signal protection at highway-railway level crossings.

Minor Capital Projects

Some projects represent needed highway improvements of a geometric or structural nature, which do not readily fall into either the normal contract process or the maintenance activity. The work is carried out on Secondary Highways by direct utilization of local labour, equipment and materials.

MAJOR PROJECTS - NORTHERN ONTARIO

The following pages describe several projects which have been selected to highlight this year's activity. All of these projects involve highway construction of considerable magnitude and cost and each is vital to the transportation system in the north. They feature work that has been completed recently, work that is underway and work that is to be awarded this fiscal year. Maps are also included in order to identify project locations.

CONTENTS

Highway 144NEW	- Sudbury North-west Bypass	VII
Highway 17NEW	- Kenora Bypass	VIII
Bending Lake Road		IX

Highway 144 New - Sudbury North-west Bypass

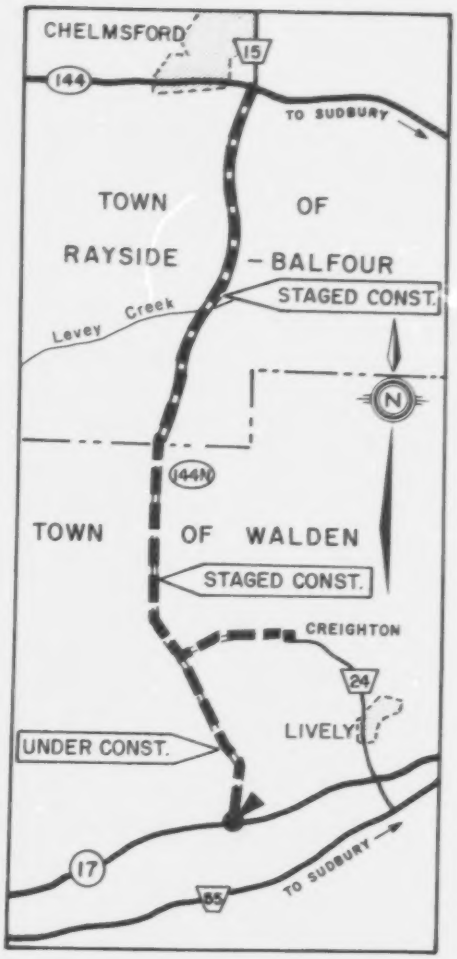
Increasing traffic congestion on existing routes within the Region of Sudbury resulted in planning studies identifying the need for a new route which will form a bypass on the north-west side of Sudbury. This new facility will connect Highway 144 east of Chelmsford and Highway 17 west of Lively.

The initial contract was awarded late in fiscal 1982 for the grading of the northerly 8.7 km including the structure at Levey Creek. This work was completed in the fall of 1983.

During 1984, a contract was awarded for grading a further 6.0 km on Highway 144N, including the structure at the Pumphouse Road. The work was completed in the fall of 1985.

During 1985 a contract was awarded for grading of the 3.3 km link to Highway 17N and the 2.7 km connection to Creighton, including the interchange structure at Highway 17N.

A follow-up contract for paving the entire section from Highway 17 to Highway 144 will complete this new facility.



Highway 17 New - Kenora Bypass

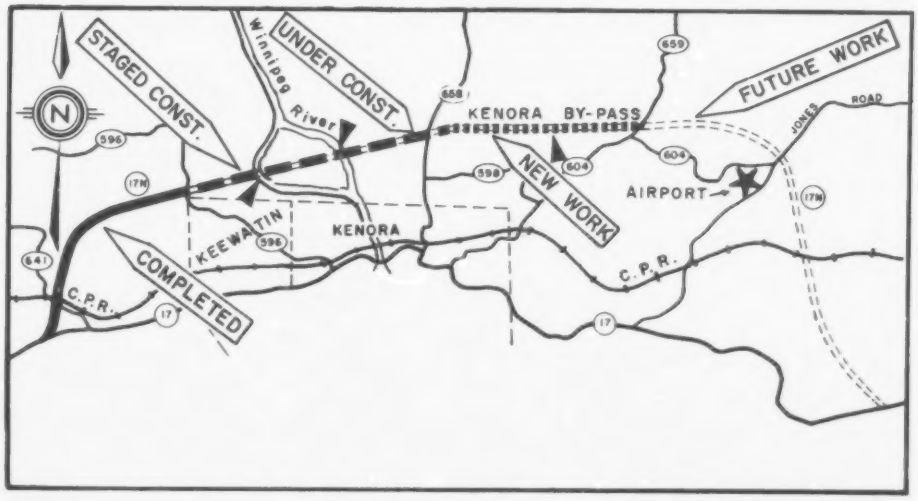
As a result of traffic congestion on the Trans-Canada Highway through Kenora, a bypass of the Kenora, Keewatin and Jaffray-Mellick areas is now under construction. The new route begins just west of Highway 71 and runs north of the Kenora Airport and then westerly, with intersections at Secondary Highways 659, 658 and 596, rejoining existing Highway 17 just west of Secondary Highway 641. The initial stage of construction will feature two lanes with full width paved shoulders, truck climbing lanes and several large structures.

Construction of this new facility began in 1981 and the first section from Highway 17 west of Keewatin easterly 8.4 km to Secondary Highway 596 was opened to traffic in September of 1983.

A grading contract for the section from Secondary Highway 596 easterly 2.8 km, including a structure over the Winnipeg River West Branch was awarded in the summer of 1983 and completed late in 1984. Also, in 1984, a contract for the section from the Winnipeg River West Branch easterly 5.2 km to Secondary Highway 658 including a structure over the East Branch of the Winnipeg River was awarded and will be completed by fall of 1986.

In 1986, it is planned to award a grading contract from Secondary Highway 658 easterly to Secondary Highway 659, including the Ritchie Road underpass.

Further contracts are planned in a continuous sequence until this new bypass has been completed.



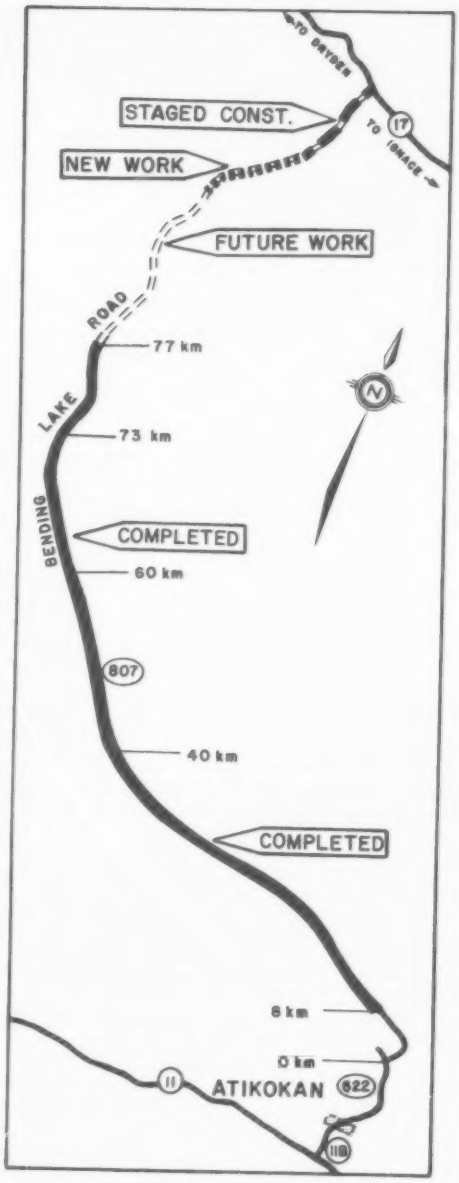
Bending Lake Road

Bending Lake Road, when completed, will be a new link running from Secondary Highway 622 at Atikokan, northerly to Highway 17, intersecting at a point between Ignace and Dryden. In addition to providing a new transportation facility between Highway 11 and Highway 17, the road already provides access to resources in the Pekagoning Lake area north-west of Atikokan.

Work began in 1979 and since that time grading and granular base has been completed from Highway 622 northerly for 77 km, including bridges at the Seine, Little Turtle and Turtle Rivers. Contracts were awarded in 1985 for grading from Highway 17 southerly for 9.0 km and for crushed gravel and installation of guide rail at various locations on the completed sections. The latter contract was completed, with the first contract having some carryover into 1986.

A contract will be awarded in 1986 for grading from 9.0 km south of Highway 17 southerly for 10.0 km.

Further work is planned over the next few years to complete this new facility.



SPECIFIC ACTIVITIES

Remote Airport Construction

The Remote Airport Construction Program consists of the development of a system of public airports in remote areas of northern Ontario. The improvement in the air transportation system in this part of the Province is particularly important inasmuch as these settlements are not accessible by conventional all-season surface transport modes. Most building materials, food, mail, fuel and other supplies are delivered by air. While many of these shipments could be made by float or ski equipped aircraft, land-based aircraft offer many advantages in payload, fuel efficiency and in continuity of service uninterrupted by seasonal freeze-ups and break-ups.

The Program began in 1968 with two existing airports and continued with additional ones on a priority basis. Since 1968, 18 new airports have been constructed, averaging one airport per year. The most recent additions to the system are Kasabonika and Cat Lake Airports which were commissioned in 1985.

Major work, which began in 1984 at Muskrat Dam and in 1985 at Kingfisher Lake Airport, will continue in 1986. Also, the major expansion work for the Ogoki Airport will continue in 1986. Initial work will begin on the Wapekeka Airport at Angling Lake in 1986.

REMOTE AIRPORT LOCATIONS

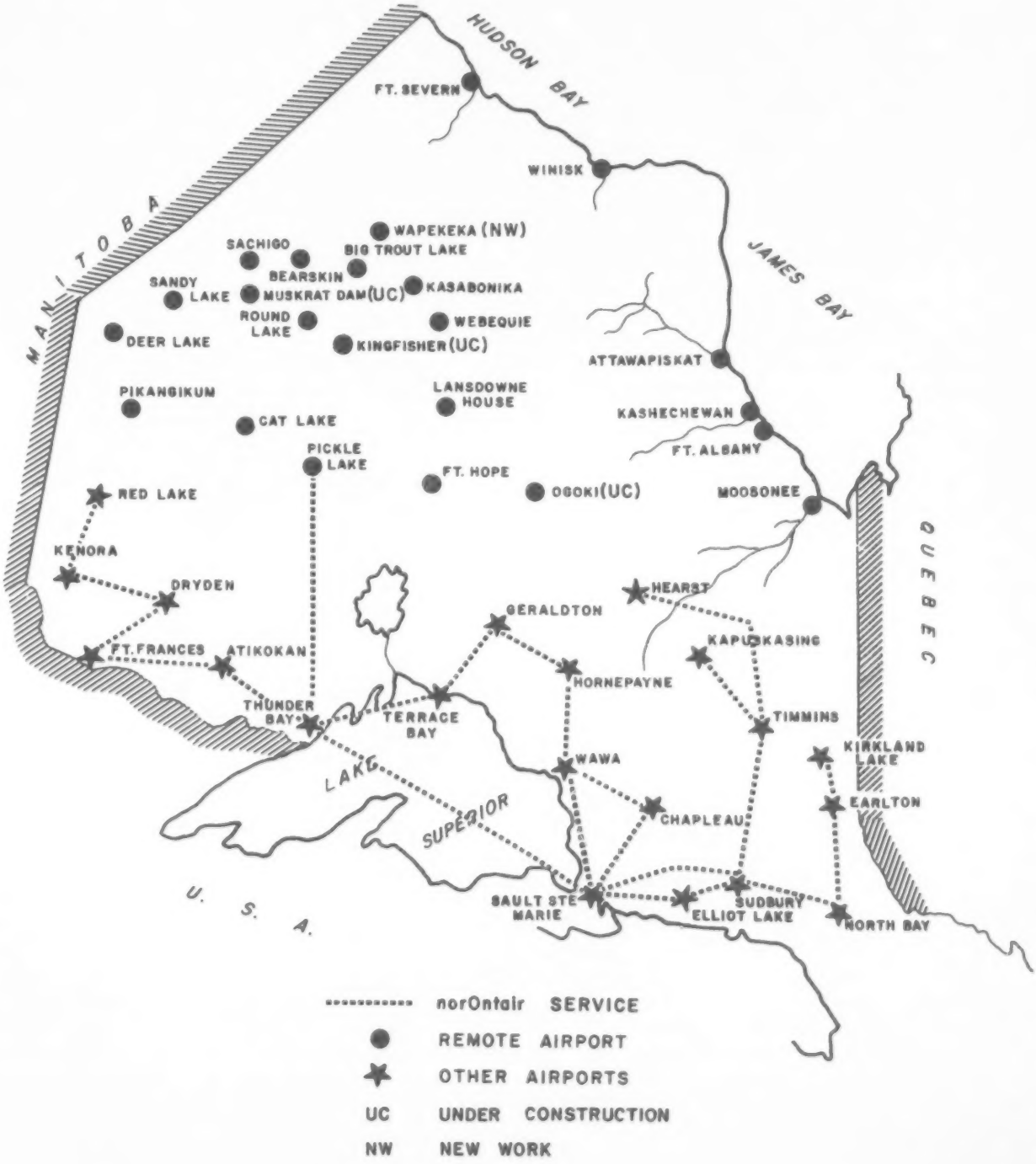
Community	Estimated Population	Runway Length
Attawapiskat	1,040	3,500
Bearskin Lake	336	3,500
Big Trout Lake	600	3,400
Cat Lake	276	3,500
Deer Lake	408	3,500
Fort Albany	802	3,500
Fort Hope	705	3,500
Fort Severn	242	3,500
Kasabonika	402	3,500
Kashechewan	864	3,800
Kingfisher	240	3,500*
Lansdowne House	229	3,500
Moosonee (1)	2,500	4,100
Muskrat Dam	146	3,500*
Ogoki (Marten Falls)	140	2,000**
Pickle Lake (1)	1,002	4,500
Pikangikum	917	3,500
Round Lake (Weagamow)	452	3,500
Sachigo Lake	262	3,500
Sandy Lake	1,323	3,500
Wapekeka (Angling Lake)	185	New Work
Webequie	450	3,500
Winisk	243	5,000

(1) Terminal Points

* Under construction

** Runway extension

REMOTE AIRPORTS IN NORTHERN ONTARIO
AND
AIR SERVICE (norOntair)



SPECIFIC ACTIVITIES

Passing Lanes

The construction of passing lanes and truck climbing lanes has proven to be a cost effective means of providing safe opportunities to pass slower moving vehicles and maintaining the operational flow of traffic. A review of traffic operations where passing lanes have been constructed indicates that they function in a very satisfactory manner and public reaction has been favourable, especially on the Trans-Canada Highway in Northern Ontario.

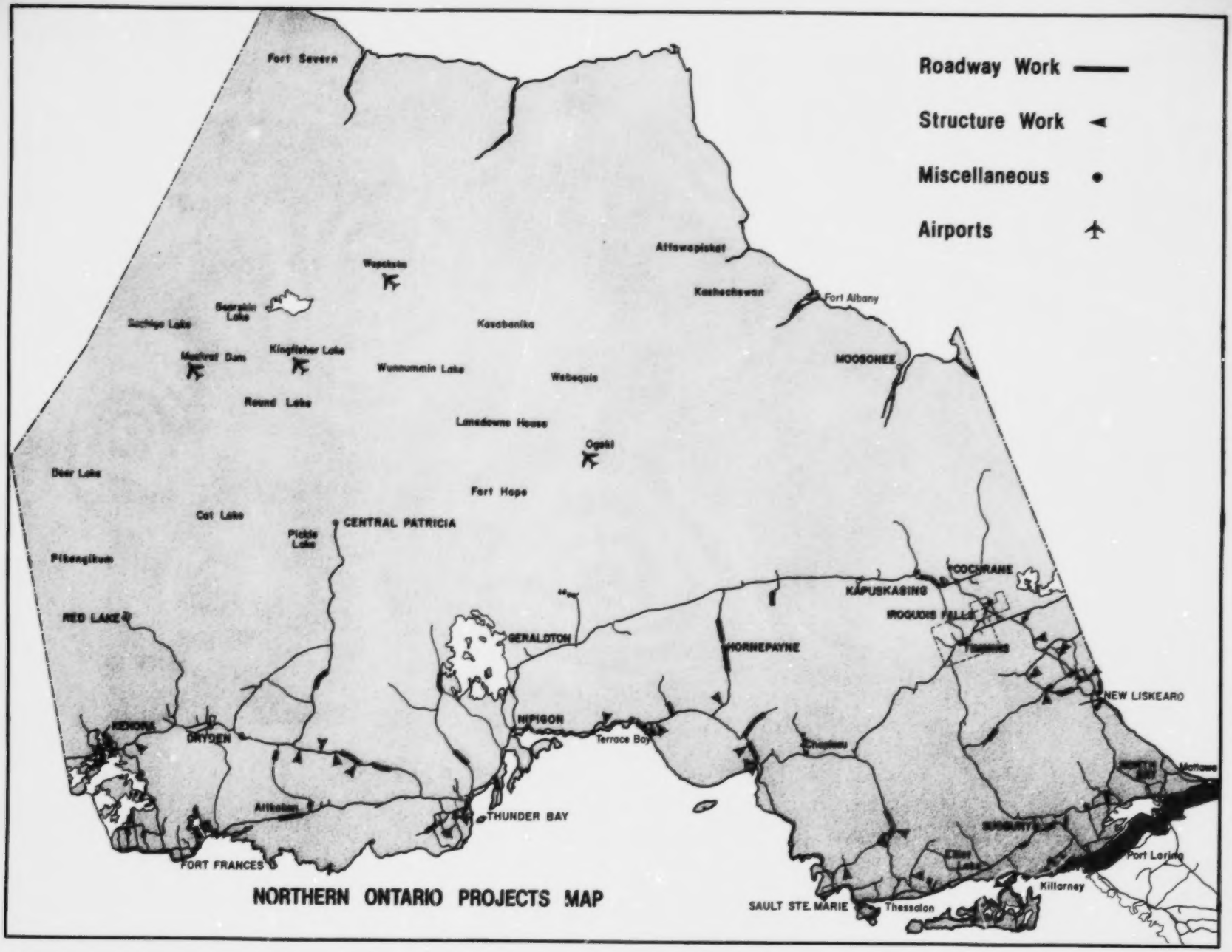
It is intended to continue with the construction of passing lanes in areas where the present criteria and experience indicate they will be effective. Eleven passing lanes are planned for award during the 1986-87 fiscal year of which five are in Northern Ontario.

The following table indicates the number of passing lanes constructed in Northern and Southern Ontario over the past ten years on an annual basis.

Year	Northern Ontario	Southern Ontario
1985	6	7
1984	3	1
1983	14	1
1982	4	6
1981	3	5
1980	15	4
1979	11	3
1978	9	1
1977	28	17
1976	26	1
1975	36	--
Total Number of Lanes since 1975.	**155**	**46**

WORK DURING PAST CONSTRUCTION SEASON

Recently completed passing lane on rural highway



NORTHERN ONTARIO PROJECTS MAP

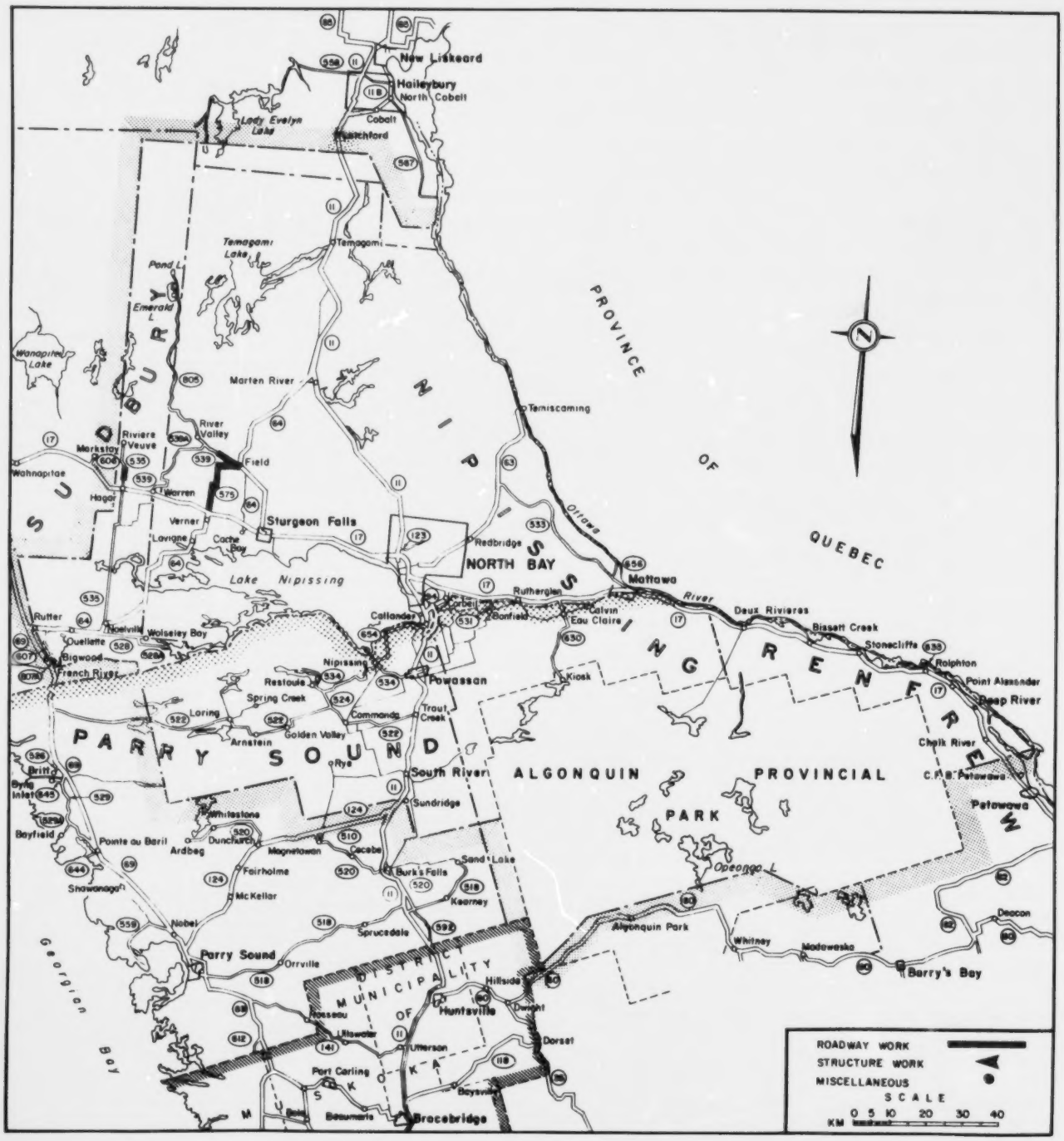
SUMMARY OF NEW WORK - NORTHERN ONTARIO - ROADS

An overall summary of capital projects proposed for tender in 1986-87 is listed below:

Two-Lane	km
. paving	114
. prime and surface treatment	17
. grading and paving	74
. grading	125
TOTAL	**330**

Bridges	Each
. new structures	1
. structure rehabilitation	11
. structure replacement	4
TOTAL	**16**

NORTH BAY DISTRICT



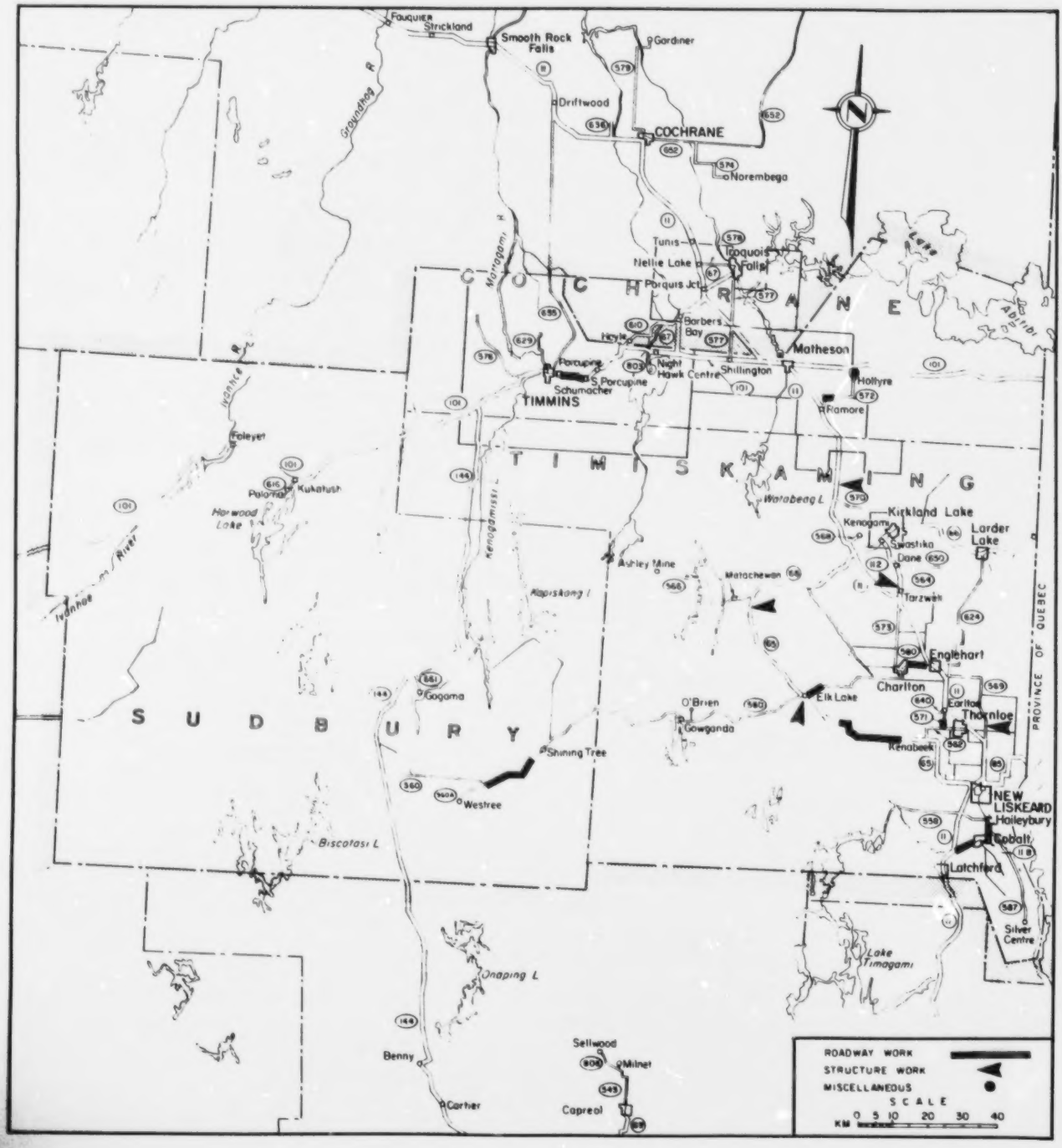
CAPITAL CONSTRUCTION PROJECTS **NORTH BAY DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage and Granular Base			
85-227	539	From Desaulniers, easterly to Highway 64, Field.	6.8
85-229	575	From Highway 17, Verner northerly.	8.6
189-80-1	575	From 8.6 km north of Highway 17, Verner, northerly.	9.6

MINOR CAPITAL PROJECTS

Grading, Drainage and Granular Base			
7613-81-1	535	From 4.1 km north of Highway 17 northerly.	2.1
Prime and Surface Treatment			
	535	From 1.6 km north of Highway 17, northerly.	2.5
46-81-4	539	From Desaulniers, easterly to Highway 64, Field.	6.8
190-80-1	575	From Highway 17, northerly.	8.6

NEW LISKEARD DISTRICT



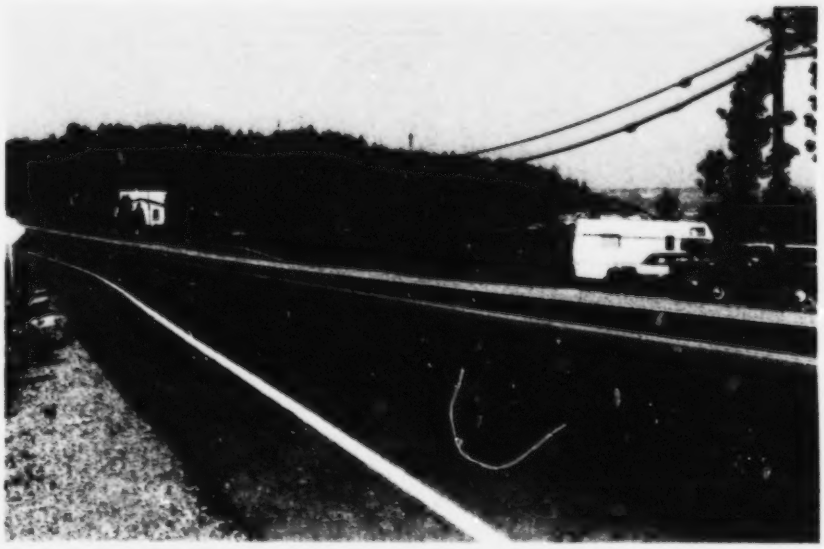
CAPITAL CONSTRUCTION PROJECTS **NEW LISKEARD DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Paving			
85-221	11B	From Highway 11, northerly, to Haileybury excluding the Connecting Link in Cobalt, and including paving 1.0 km of Secondary Highway 567 from Highway 11B, southerly.	12.3
126-81-1	101	From east of Ontario Northland Railway Overhead, Schumacher, easterly to South Porcupine.	5.2
Grading, Drainage and Granular Base			
85-217	560	From Elk Lake, easterly.	7.9
Structure and Approaches			
161-74-1	65	Montreal River Bridge at Long Rapids, 5.0 km south of Highway 66.	1.0
35-80-2	112	Blanche River Bridge, 2.9 km north of Highway 11.	
Structure Rehabilitation			
36-78-4	11	White Clay River Bridge, 3.1 km north of Secondary Highway 570.	
317-85	65	Makobe River Bridge in Elk Lake.	0.3
7617-83-1	569	Blanche River Bridge at Tomstown, timber deck.	

CAPITAL CONSTRUCTION PROJECTS **NEW LISKEARD DISTRICT**

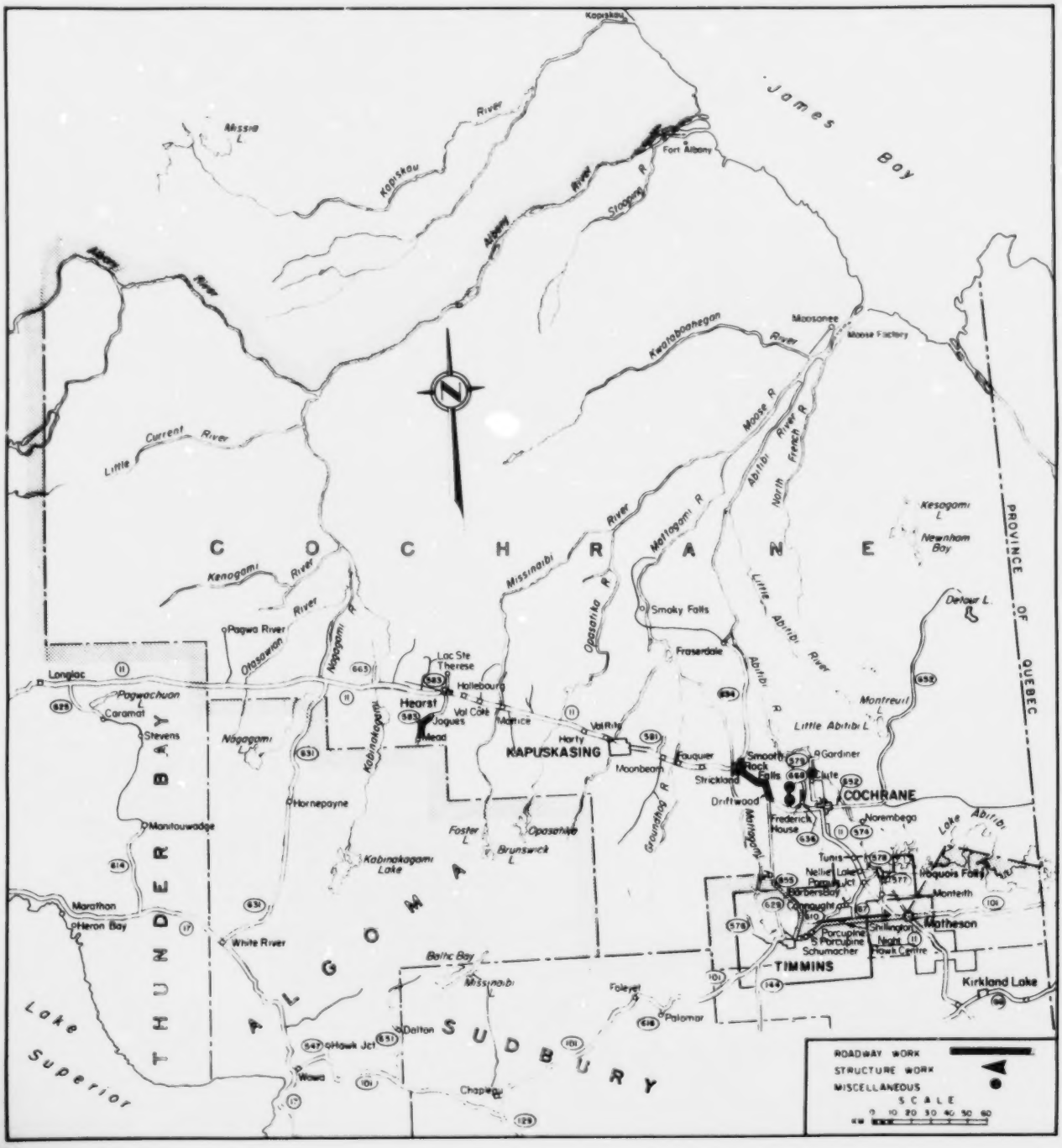
Project Number	Highway Number	Location and Description	Length km
Paving			
140-80-1	65	From 16.2 km east of Elk Lake, easterly, including from Elk Lake easterly, various locations, and from 31.0 km east of Elk Lake easterly, various locations.	22.0
28-84-1	560	From Charlton easterly to Highway 11, Englehart.	8.7
MINOR CAPITAL PROJECTS			
Grading, Drainage and Granular Base			
	560	Vicinity of Shining Tree, various locations.	
	572	From 2.0 km north of Highway 11, northerly and approaches to Pike River Bridge, 2.3 km north of Holtyre.	2.2
	571	From Secondary Highway 562 northerly.	4.0
Prime and Surface Treatment			
174-81-2	560	From Elk Lake, easterly.	7.9
	560	From Secondary Highway 560A, easterly.	9.0
	572	From Highway 11, northerly.	4.0

WORK COMPLETED DURING PAST CONSTRUCTION SEASON



Reconstruction of an existing two-lane highway

COCHRANE DISTRICT



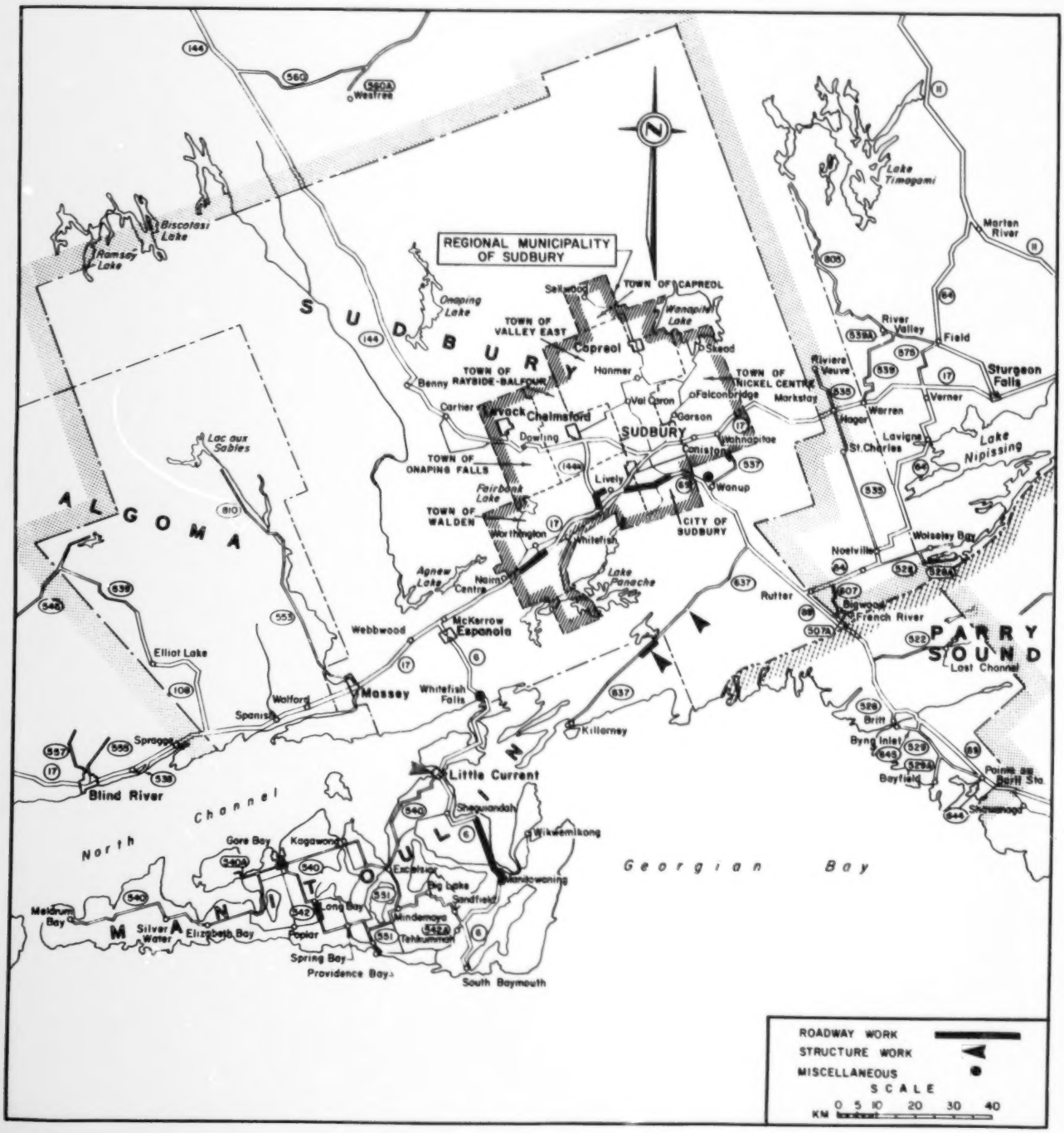
CAPITAL CONSTRUCTION PROJECTS — COCHRANE DISTRICT

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage and Granular Base			
165-78-1	634N	Smooth Rock Falls Bypass, from Highway 11, northerly, 1.1 km east of Highway 634.	2.8
Paving and Grading			
55-79-1	11	From Smooth Rock Falls easterly to Driftwood, including selective paving at various locations west of Smooth Rock Falls and from Driftwood to Cochrane, intersection improvements and crushed gravel stockpile.	36.4

MINOR CAPITAL PROJECTS

Grading, Drainage and Granular Base			
	579	From 10.0 km north of Cochrane northerly.	1.0
7616-81-4	583	From 11.0 km north of Mead, northerly.	7.0
	668	From Greenwater Park, southerly.	4.2
Prime and Surface Treatment			
7616-81-6	583	From Mead northerly and from 20.9 km to 25.1 km north of Mead.	10.7
	668	From Greenwater Park, southerly.	6.5
Miscellaneous			
	668	Frost Heave Treatment - from Highway 11, northerly, various locations.	

SUDBURY DISTRICT



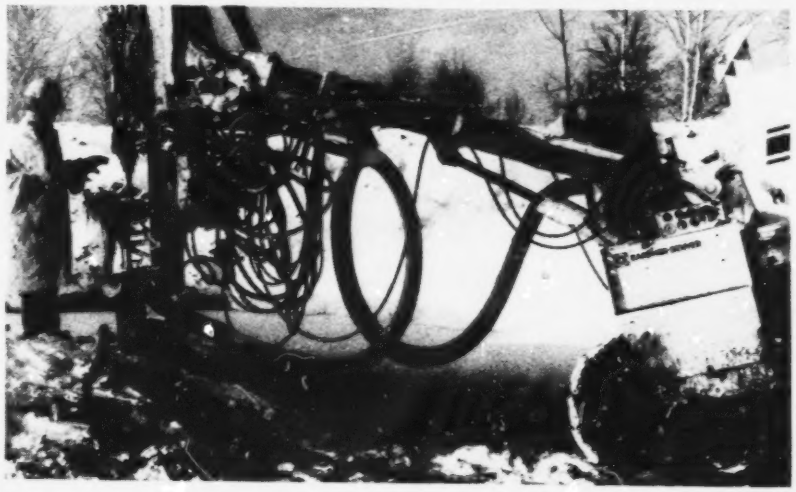
CAPITAL CONSTRUCTION PROJECTS **SUDBURY DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Structures			
85-223	144N	From Highway 17, northerly including Highway 17 interchange structure, and local road connection to Creighton.	3.3
85-212	637	From 26.2 km east of Killarney easterly including Mahzenazing River east structure.	8.6
Paving and Structure Rehabilitation			
135-83-1	7153	Sudbury Southwest Bypass, from Highway 69 westerly to Highway 17, including one structure deck rehabilitation.	13.0
Paving			
18-80-1	6	From 6.9 km south of Manitowaning northerly.	23.3
54-79-1	17	From 6.7 km east of Nairn Centre easterly including construction of two passing lanes and intersection improvements at Old Nairn Road.	10.4
Structure and Approaches			
122-79-2	637	Wanapitei River Structure and approaches, 14.5 km west of Highway 69.	1.3

CAPITAL CONSTRUCTION PROJECTS **SUDBURY DISTRICT**

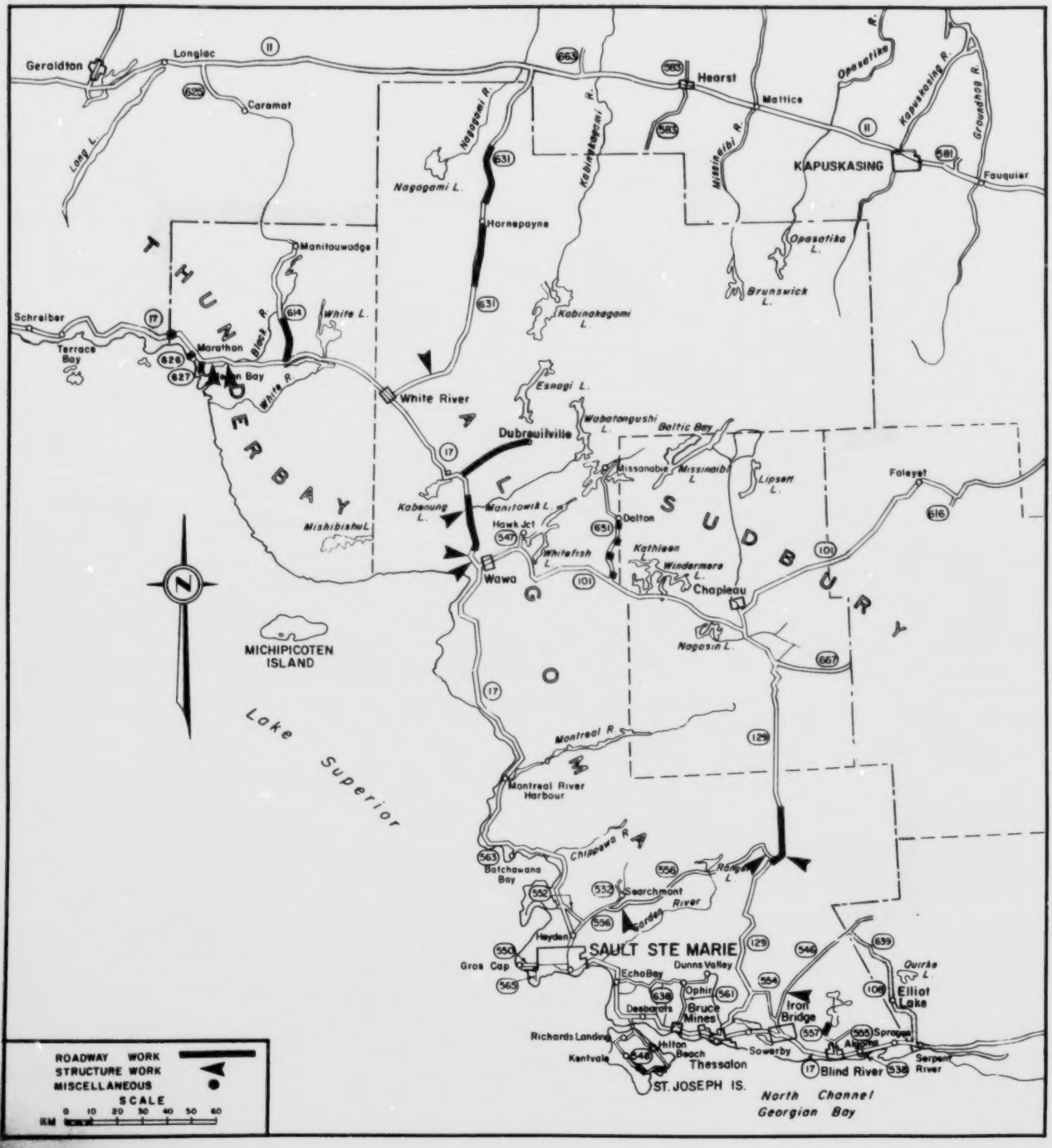
Project Number	Highway Number	Location and Description	Length km
Structure Rehabilitation			
85-230	6	Little Current Swing Bridge.	
MINOR CAPITAL PROJECTS			
Paving			
	7041	Village of Whitefish Falls, from north junction to south junction of Highway 6.	1.3
Grading, Drainage and Granular Base			
	537	Vicinity of Jumbo Creek, 5.0 km south of Highway 17.	0.3
	540	From Secondary Highway 542, westerly.	3.0
	7042	Wanup Road, from Highway 69; easterly.	2.0
Prime and Surface Treatment			
	542	From 13.4 km south of Secondary Highway 542, southerly.	5.7
124-79-3	637	From 32.2 km west of Highway 69, westerly.	8.6

WORK IN PROGRESS DURING PAST CONSTRUCTION SEASON



Construction of a new two-lane highway

SAULT STE MARIE DISTRICT



CAPITAL CONSTRUCTION PROJECTS **SAULT STE. MARIE DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage and Granular Base			
85-206	631	From 26.9 km north of Hornepayne northerly.	15.9
85-213	Access	Dubreuilville Road - from 15.5 km east of Highway 17 easterly.	15.7
Paving and Structure Rehabilitation			
905-76-1	17 631	From 10.7 km east of Secondary Highway 519 (Dubreuilville Road) easterly including two passing lanes and three structure rehabilitations on Highway 17 and one structure rehabilitation on Highway 631.	15.5
85-219	614 626 627 Local 17	Secondary Highway 614 from Highway 17 northerly, Secondary Highway 626 from Penn Lake Road in Marathon, easterly 3.9 km; Secondary Highway 627 from Heron Bay northerly 6.0 km; paving of local roads in Pukaskwa National Park. Also included is hot mix patching on Highway 17 from Secondary 614 westerly, various locations, waterproofing and paving of two structures, and repairs to Passing Lane on Highway 17, 8.7 km west of Secondary Highway 614. "The above project is partially recoverable."	11.9
Granular Base and Structure Rehabilitation			
22-82-1	129	From 2.5 km south of Secondary Highway 556 northerly including expansion joints, waterproofing and paving of Mississagi River Bridge.	28.5

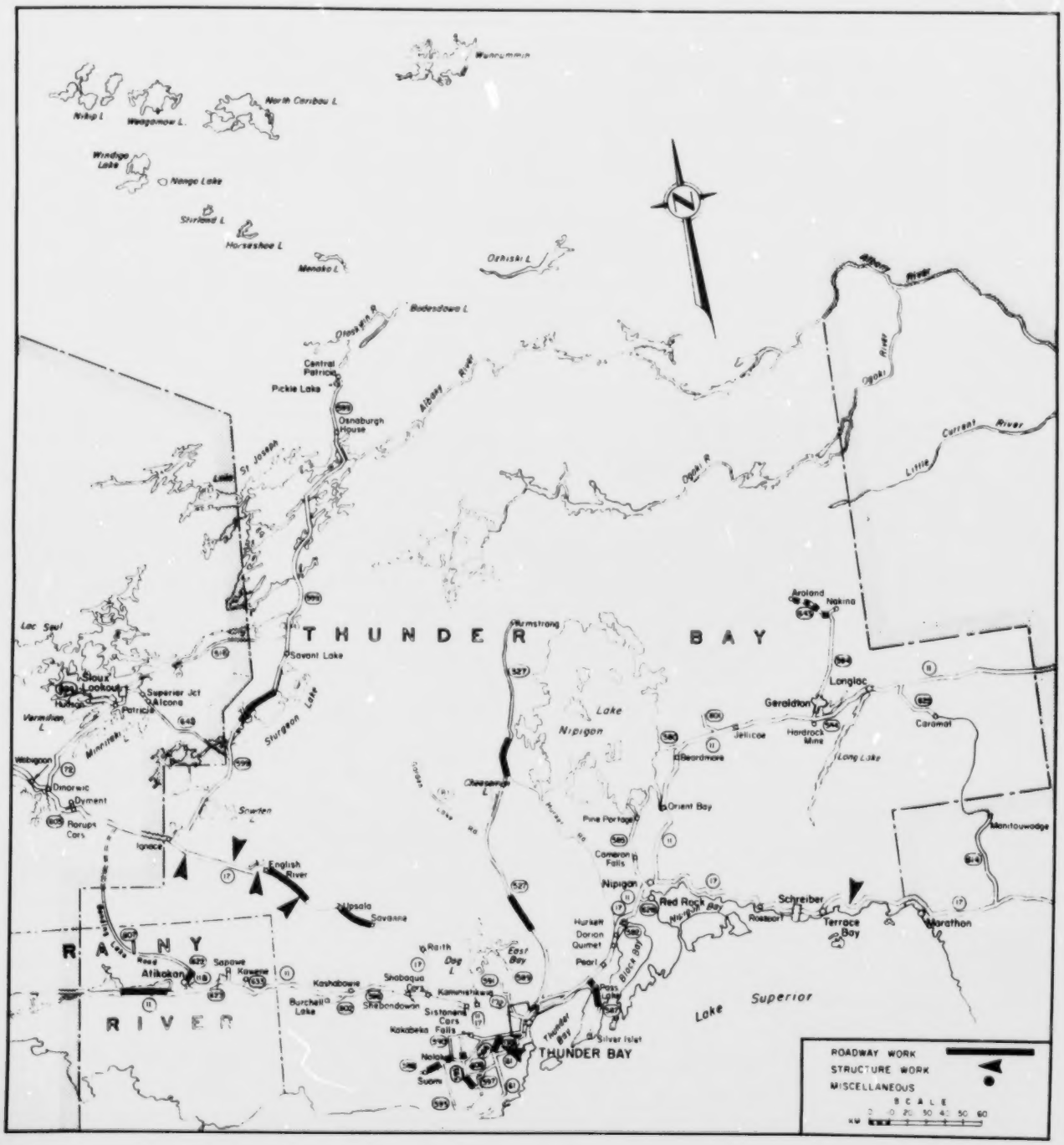
CAPITAL CONSTRUCTION PROJECTS **SAULT STE. MARIE DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Granular Base			
151-80-2	631 Local	From 57.1 km north of Highway 17 northerly to the north limits of the Hornepayne Bypass 47.7 km, and includes the Connecting Link and some municipal work in Hornepayne. "The Connecting Link portion of the above project is funded under Connecting Link Agreement with the Municipality, while the Municipal work is fully recoverable from the Municipality."	38.8
Structure and Approaches			
276-85-0	556	Dam Creek culvert and approaches, 6.4 km east of Secondary Highway 532.	0.4
Miscellaneous			
87-83-1	17	Rock cut stabilization - Ripple Corner and Ripple Lake Road cuts, 2.7 km and 4.7 km east of Prairie River Bridge, 42.0 km west of Secondary Highway 626, Marathon.	
72-81-3	519	Prime and surface treatment - Dubreuilville Road from Highway 17 easterly.	15.0

MINOR CAPITAL PROJECTS **SAULT STE. MARIE DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage and Granular Base			
7815-80-5	548	From 13.0 km south of Hilton Beach westerly.	2.4
7813-80-6	557	From 3.0 km north of Bearhead Creek northerly to end of highway.	1.3
Prime and Surface Treatment			
7815-80-6	548	From 11.2 km south of Hilton Beach westerly.	1.8
7801-81-4	548	From 4.1 km south of "P" Line southerly.	2.1
7810-83-4	651	From Highway 101 northerly 28.0 km to Dalton at various locations.	3.5
Structure Replacement			
7811-85-1	546	Lajoule Creek Culvert, 21.6 km north of Secondary Highway 554.	
7812-85-1	556	3.4 km west of Highway 129.	

THUNDER BAY DISTRICT



Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base, Paving and Structures			
85-228	130 17 102 595	Highway 130, from Highway 61 northerly to Schan's Corners including a Special Design Culvert at Newton Creek, paving and grading from Schan's Corners northerly to Rosslyn Road 6.3 km excluding a 1.2 km section, and paving from Rosslyn Road to Highway 11/17, 1.9 km. Also included is selective paving at various locations on Highway 17 west of Kakabeka Falls, hot mix patching at various locations on Highway 102 from 11.6 km east of Highway 11/17 easterly, and reconstruction of Secondary Highway 595 from Hymers northerly 1.2 km.	5.2
Grading, Drainage, Granular Base and Paving			
174-79-1	622	From Sumac Road, Atikokan northerly to Hydro Access Road, including granular base and paving from Highway 11B northerly to Sumac Road, 1.7 km and grading, drainage and granular base from Hydro Access Road northerly to end of highway, 2.5 km.	6.8
Grading, Drainage and Granular Base			
85-207	527	From 32.1 km north of Tertiary Road 811, junction of Road to Hurkett, northerly, and from 45.4 km north of Tertiary Road 811 at various locations.	13.3
186-85-0	527	From 47.8 km north of Highway 11/17 northerly.	10.1
170-80-1	587	From Highway 11/17 southerly to Sibley Provincial Park.	14.0
85-210	599	From 9.1 km north of Secondary Highway 642 northerly.	14.0

CAPITAL CONSTRUCTION PROJECTS **THUNDER BAY DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading and Paving			
296-64-2	11	From 15.6 km west of Highway 11B Atikokan westerly.	22.3
Paving and Structure Rehabilitation			
85-211	17	From English River easterly including construction of four passing lanes, and deck repairs, waterproofing and paving of four structures.	16.3
Paving			
904-65-0	17	From Upsala easterly.	16.8
Structure Rehabilitation			
85-218	17	Steel river Bridge, 26.0 km east of Terrace Bay.	

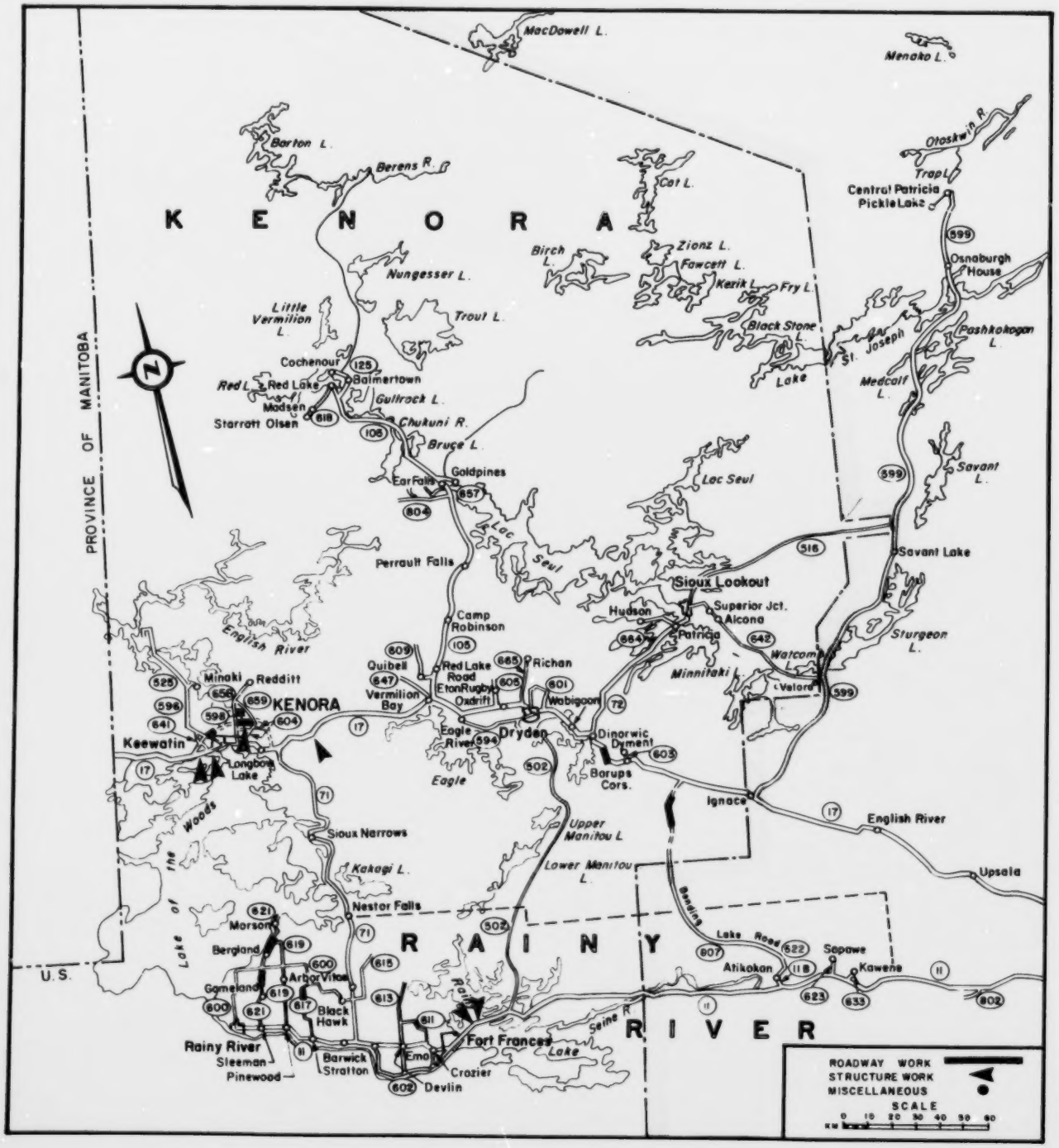
REMOTE AIRPORTS

2000-85-1	Airport	Kingfisher
2000-83-1	Airport	Muskrat Dam
2001-85-1	Airport	Ogoki (Marten Falls)
2002-85-0	Airport	Wapekeka (Angling Lake)

MINOR CAPITAL PROJECTS **THUNDER BAY DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage and Granular Base			
7813-85-1	588	From Kam River Bridge westerly, 10.0 km at various locations.	4.0
7829-81-3	595	From Hymers Village, northerly.	1.2
		This project is included with Capital Construction project on Highway 130, Contract 85-228.	
7821-84-1	595	From 13.3 km south of Secondary Highway 608, southerly 7.6 km.	4.0
Prime and Surface Treatment			
7822-84-1 -2	588	From Secondary Highway 593 easterly 2.0 km and westerly 12.0 km at various locations.	6.0
7812-83-3	595	From 6.8 km south of Secondary Highway 608 southerly, 7.6 km.	4.0
7823-84-2	643	From Secondary Highway 584 westerly, 19.2 km at various locations.	5.0

KENORA DISTRICT



CAPITAL CONSTRUCTION PROJECTS **KENORA DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Grading, Drainage, Granular Base and Structure			
902-77-3	17N 659	Kenora Bypass, from Secondary Highway 658 easterly, including Ritchie Road structure and westbound truck climbing lane west of Secondary Highway 659, and Secondary Highway 659 from Secondary Highway 604 northerly 0.8 km.	6.2
Grading and Drainage			
18-77-6	807	Bending Lake Road - from 9.3 km south of Highway 17 southerly. "This above project is funded by the Ministry of Northern Development and Mines, Regional Priority Budget."	10.3
Grading, Granular Base and Paving			
421-85-0	17	From 4.7 km east of Highway 72, Dinorwic, easterly, including selective paving from 6.6 km west of Highway 72, Dinorwic, easterly, 38.6 km at various locations.	1.8
Structure Rehabilitation			
85-231	11	Rainy Lake Causeway - high level structure, 1st stage.	
5-82-03	11	Rainy Lake Causeway - high level structure, 2nd stage, including the west low level structure 1st stage and east low level structure.	
85-454	17	Keewatin Channel Bridge - Towns of Keewatin/Kenora, and Winnipeg River West Branch - Town of Kenora. "The above project is funded under Connecting Link Agreement with the municipality."	

CAPITAL CONSTRUCTION PROJECTS **KENORA DISTRICT**

Project Number	Highway Number	Location and Description	Length km
Miscellaneous			
35-85-1	17	Structure rehabilitation - Canadian Pacific Railway, Hawke Lake subway, 24.0 km east of Highway 71. "To be constructed by others."	
20-86-0	Local	Prime and surface treatment - Sunnyside Road, from Secondary Highway 596 easterly.	1.5

MINOR CAPITAL PROJECTS

Grading, Drainage and Granular Base			
7804-85-1	598	From 0.9 km east of Secondary Highway 658 easterly.	0.3
85-354	617	From 5.1 km south of Secondary Highway 600 southerly.	4.0
7809-84-1	621	From 37.3 km north of Highway 11 northerly.	4.0
7810-84-1	621	From Secondary Highway 600 southerly.	14.6
Prime and Surface Treatment			
7809-84-2	621	From 36.7 km north of Highway 11 northerly.	14.1